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# Vail Seed Co.

INDIANAPOLIS, IND.

RECEIVED  
NOV 24 1913  
U.S. Department of Agriculture

1902 Annual..  
Catalogue



## SEEDS

GARDEN, FIELD  
AND  
FLOWER.

CHOICE, TESTED AND  
RELIABLE

## BULBS

HIGH-CLASS IMPORTED  
AND DOMESTIC.

## Poultry Supplies

COMPLETE LINE.

### VAIL'S NEW WONDER GOLDEN DENT CORN

HAS RAISED THE  
MORTGAGE FROM MANY  
FARMS AND WILL  
CLEAR YOURS.

The Largest Early Yellow  
Corn Grown.

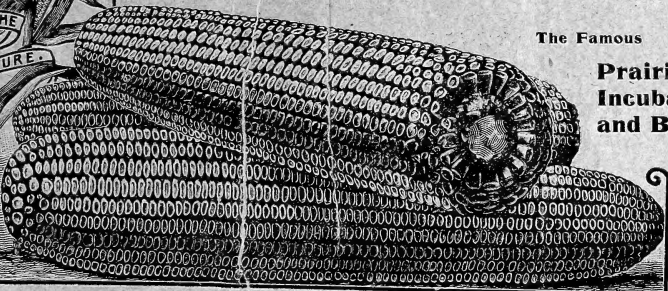
**I**T WILL mature in any section where Corn can be grown and will yield 30 to 40 bushels more per acre. The grain is long, broad and thick. Very solid and heavy. Weighs out more shelled corn to the bushel than any known variety; has wonderful germinating qualities on account of its immensely large, solid grain. Grains grow well over the end of cob and has a good strong foliage; husks easily; ears set low on the stalk; has a very thin bran.

PRICE—Lb. 25c, 4 lbs. 75c, 1/2 bu. \$1.00, 1/2 bu. \$1.50, bu. \$3.00.



The Famous

Prairie State  
Incubators  
and Brooders.







# COLLECTIONS OF GARDEN SEEDS TO SUIT ALL SIZES OF GARDENS

MADE UP FROM THE BEST VARIETIES OF  
THE VAIL SEED CO.'S

	<h2>HIGH GRADE SEEDS</h2>	
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**T**he following collections are made up of the same high quality of seeds as offered in the rest of our Catalogue, but as it is a saving of time (which is of great importance to us) to supply them this way, they are offered considerably less than our catalogue prices. It will be noticed that some of the collections contain half pints, which we do not supply generally, and they will not be furnished with any orders except these collections, nor can we allow any change to be made in the assortments. See list of collections on next page.

**SPECIAL COLLECTIONS** contain 1 pkt. of **White Plume Celery**; 1 pkt. of **Stringless Green Pod Beans**; 1 pkt. **Country Gentleman Sweet Corn**; 1 pkt. of **Beauty Tomato**; 1 pkt. of **Improved White Spine Cucumber**; 1 pkt. **Oxheart Carrot**; 1 pkt. of **Perfection Cantaloupe**. Price 25c, postpaid. 5 Special Collections, postpaid, \$1.00.

**COLLECTION No. 1.** For a small garden. Contains 15 pkts. of assorted Garden Seeds. For list of varieties, see next page. Price, postpaid, 50c. 5 collections, No. 2, postpaid, \$2.00.

**COLLECTION No. 2.** For a medium-sized garden. Contains 21 pkts. of assorted Garden Seeds; 7 one-half pints of Beans, Peas and Sweet Corn, 28 varieties. For list of varieties, see next page. Price, buyer to pay charges, \$1.00. Price, postage paid by us, \$1.25.

**Special Offer**—We will send 3 collections, No. 3, to any freight depot within a radius of 400 miles of Indianapolis, Ind., for \$3.00, charges prepaid.

**COLLECTION No. 3.** For a general garden. Contains 21 pkts. 13 ounces and  $\frac{1}{4}$  pound assorted Garden Seeds, 2 one-half pints, nine pints Peas, Beans and Sweet Corn; 2 quarts Onion Sets. See next page for list of varieties. 48 varieties. Price, buyer to pay charges, \$3.00. Price, postage paid by us, \$4.00. Express and freight charges on this, 25c to 40c.

**Special Offer**—We will send 3 collections No. 4 to any freight depot within a radius of 400 miles of Indianapolis, Ind., for \$8.50, charges prepaid.

**COLLECTION No. 4.** For a large garden. Contains 15 pkts., 5 one-half ounces, 22 ounces, 2 two-ounce, 1 quarter pound, and a half pound of assorted Garden Seed, and 13 one pints and 2 one quart Peas, Beans and Sweet Corn, and 2 two-quarts Onion Sets. 63 varieties. See list of varieties on next page. Price, buyer to pay charges, \$5.00. Freight charges on this collection, about 25c to 40c.

**Special Offer**—We will deliver 3 collections No. 5 to any depot within a radius of 400 miles of Indianapolis, Ind., for \$14.00, charges prepaid.

**COLLECTION No. 5.** For a very large family garden. Contains 8 pkts., 9 one-half ounces, 3 two-ounces, 7 ounces, 18 one-quarter pounds, 1 pound of assorted Garden Seeds, 1 pint, 12 quarts, 3 two-quarts Beans, Peas and Sweet Corn, and 2 four-quarts Onion Sets. See list of varieties on next page. 64 varieties. Price, buyer to pay charges, \$10.00. Freight charges on this collection, about 25c to 50c.

**Special Offer**—We will deliver 3 collections of No. 6 to any freight depot within a radius of 400 miles of Indianapolis, Ind., charges prepaid by us, for \$25.00.

**IN ORDERING** these collections it is only necessary to order by number only, without going to the trouble of giving the list of varieties.

# Five Collections of Garden Seeds.

Made up of the Best Varieties and in Quantities to Suit Various Sized Gardens.

VARIETIES.	COLLECTIONS				
	No. 1.	No. 2.	No. 3.	No. 4.	No. 5.
<b>Beans, Improved Earliest Red Valentine</b> .....	1 pkt.	$\frac{1}{2}$ pt.	1 pt.	1 pt.	1 pt.
Extra Early Refugee.....				1 pt.	1 qt.
Wardwell's Kidney Wax.....	1 pkt.	$\frac{1}{2}$ pt.	1 pt.	1 pt.	1 qt.
Bush Lima, Wood's Prolific.....		1 pt.	1 pt.	1 pt.	1 qt.
Pole Lima, Ford's Mammoth Poddled.....			1 pt.	1 pt.	1 qt.
Pole, Improved Kentucky Wonder.....			$\frac{1}{2}$ pt.	1 pt.	1 qt.
<b>Beets, Extra Early Eclipse</b> .....	1 pkt.	1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
Edmand's Blood Turnip.....	1 pkt.	1 pkt.	1 oz.	$\frac{1}{2}$ oz.	$\frac{1}{2}$ lb.
<b>Cabbage, Charleston Wakefield</b> .....	1 pkt.	1 pkt.	1 pkt.	1 pkt.	$\frac{1}{2}$ oz.
Solid South.....	1 pkt.	1 pkt.	1 pkt.	1 pkt.	$\frac{1}{2}$ oz.
Prize Head, Late Flat Dutch.....			1 pkt.	$\frac{1}{2}$ oz.	1 oz.
<b>Cauliflower, Earliest Snowball</b> .....	1 pkt.	1 pkt.	1 pkt.	1 pkt.	2 pkts.
<b>Carrot, Improved Long Orange</b> .....	1 pkt.	1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
<b>Celery, White Plume</b> .....			1 pkt.	$\frac{1}{2}$ oz.	1 oz.
<b>Corn, Mammoth White Cory</b> .....	1 pkt.	$\frac{1}{2}$ pt.	$\frac{1}{2}$ pt.	1 pt.	1 qt.
Kendel's Early Giant.....			1 pt.	1 pt.	1 qt.
Stowell's Evergreen.....		$\frac{1}{2}$ pt.	1 pt.	1 pt.	1 qt.
Country Gentleman.....			1 pkt.	1 pt.	1 qt.
<b>Pop Corn, Mapedale Prolific</b> .....	1 pkt.	1 pkt.	1 pkt.	1 pkt.	1 pt.
<b>Cucumbers, Improved Early White Spine</b> .....	1 pkt.	1 pkt.	1 pkt.	1 oz.	$\frac{1}{2}$ lb.
Improved Long Green.....			1 pkt.	1 oz.	$\frac{1}{2}$ lb.
Green Prolific.....			1 pkt.	1 pkt.	1 oz.
<b>Leek, Large Flag</b> .....			1 pkt.	1 pkt.	$\frac{1}{2}$ oz.
<b>Herbs, Thyme</b> .....				1 pkt.	1 pkt.
Sage.....				1 pkt.	1 pkt.
Savory.....				1 pkt.	1 pkt.
<b>Lettuce, Black Seeded Simpson</b> .....	1 pkt.	1 pkt.	1 pkt.	$\frac{1}{2}$ oz.	1 oz.
California Cream Butter.....	1 pkt.	1 pkt.	1 pkt.	$\frac{1}{2}$ oz.	1 oz.
Denver Market.....			1 pkt.	$\frac{1}{2}$ oz.	$\frac{1}{2}$ oz.
<b>Cantaloupes, Rocky Ford</b> .....		1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
Extra Early Hackensack.....				1 oz.	$\frac{1}{2}$ lb.
Paul Rose.....				1 oz.	$\frac{1}{2}$ lb.
Perfection.....		1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
<b>Watermelons, Georgia Rattlesnake</b> .....		1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
Florida Favorite.....		1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
McIver's Wonderful Sugar.....		1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
Dark Icing, or Ice Cream.....				1 oz.	$\frac{1}{2}$ lb.
<b>Onion Seed, Silver Skin</b> .....				1 oz.	2 oz.
<b>Okra, Imp. Dwarf Prolific</b> .....	1 pkt.	1 pkt.	1 pkt.	1 oz.	2 oz.
<b>Onion Sets, Yellow Danver</b> .....			1 qt.	2 qts.	4 qts.
Silver Skin.....			1 qt.	2 qts.	4 qts.
<b>Parsley, Moss Curled</b> .....	1 pkt.	1 pkt.	1 pkt.	1 oz.	1 oz.
<b>Parsnip, Improved Sugar</b> .....		1 pkt.	1 oz.	2 oz.	$\frac{1}{2}$ lb.
<b>Peas, Wood, Stubbs &amp; Co.'s Express</b> .....	1 pkt.	$\frac{1}{2}$ pt.	1 pt.	1 qt.	2 qts.
American Wonder.....			1 pt.	1 pt.	1 qt.
Improved Pride of the Market.....		$\frac{1}{2}$ pt.	1 pt.	1 pt.	2 qts.
Strategem.....				1 pt.	2 qts.
<b>Peppers, Ruby King</b> .....		1 pkt.	1 pkt.	1 pkt.	1 pkt.
Long Red Cayenne.....			1 pkt.	1 pkt.	1 pkt.
Coral Gem Bouquet.....				1 pkt.	1 pkt.
<b>Pumpkin, Tennessee Sweet Potato</b> .....				1 oz.	$\frac{1}{2}$ lb.
<b>Peanuts, Improved Virginia</b> .....				1 pt.	1 qt.
<b>Radish, Extra Early White Tipped</b> .....	1 pkt.	1 pkt.	1 pkt.	1 oz.	1 oz.
Early Scarlet Turnip.....				1 oz.	1 oz.
White Strasburg.....	1 pkt.	1 pkt.	1 oz.	1 oz.	$\frac{1}{2}$ lb.
Early White Turnip.....			1 oz.	1 oz.	1 oz.
Wood's Early Frame.....			1 oz.	1 oz.	1 oz.
<b>Salsify, Mammoth Sandwich Island</b> .....		1 pkt.	1 oz.	2 oz.	$\frac{1}{2}$ lb.
<b>Spinach, Bloomsdale</b> .....			$\frac{1}{2}$ lb.	$\frac{1}{2}$ lb.	1 lb.
<b>Squash, Early Bush</b> .....	1 pkt.	1 pkt.	1 oz.	1 oz.	2 oz.
<b>Turnip, Early Red or Purple Top Strap Leaf</b> .....			1 pkt.	1 oz.	$\frac{1}{2}$ lb.
<b>Tomato, Dwarf Champion</b> .....				1 pkt.	$\frac{1}{2}$ oz.
Beauty.....		1 pkt.	1 pkt.	1 pkt.	$\frac{1}{2}$ oz.
Ponderosa.....				1 pkt.	$\frac{1}{2}$ oz.

For Prices, See Preceding Page.

# GENERAL LIST OF VEGETABLE SEEDS.

It has ever been our endeavor as Seedsmen to make Highest Quality the first consideration and then to fix our prices as low as Good, Reliable Seeds can be. It is the greatest economy for the planter to invest in seeds whose chief recommendation is that they are cheap.

OUR PRICES INCLUDE POSTAGE on packets, ounces, quarter pounds, pounds, pints and quarts, except where noted. If the purchaser will pay the freight or express charges, ten cents per pound, fifteen cents per quart and ten cents per pint may be deducted from the prepaid prices herein offered.

**PACKET and OZ. SEED DISCOUNTS.** Purchasers may make selections of seeds in Packets and Ounces at these discounts:

For 25 cents select Seeds in pkts. and oz. amounting to.....	\$0.30
For 50 cents select Seeds in pkts. and oz. amounting to.....	.65
For \$1.00 select Seeds in packets and oz. amounting to.....	1.30
For 2.00 select Seeds in packets and oz. amounting to.....	2.70
For 3.00 select Seeds in packets and oz. amounting to.....	4.00

## ARTICHOKES.

**Large Green Globe**—The undeveloped flower buds are used. They are boiled and served with Mayonnaise dressing. Pkt. 5c, oz. 25c, ¼ lb. \$1.00

## ASPARAGUS.

One oz. sows 50 feet of drill.

**Conover's Colossal**—The standard variety. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.  
**Palmetto**—A very desirable early variety; large and prolific. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.  
 Roots of either variety, postpaid, doz. 25c, 100 \$1.50. By express, per 1,000, \$6.00.

## BEANS.

### DWARF OR BUSH, GREEN POD.

**Improved Red Valentine**—One of the earliest round, green podded beans in existence. A favorite with market gardeners. Bu. \$4.00, ¼ bu. \$1.25, qt. 40c, pt. 25c, pkt. 10c.

**Refugee, or Thousand to One**—Very tender and productive; the best variety for pickling. Pkt. 10c, qt. 40c, peck \$1.50.

**Extra Early Refugee**—Large, productive, hardy, tender, fleshy pods. A great improvement on the old Refugee. Pkt. 10c, qt. 40c, peck \$1.50.

**Giant Stringless Green Pod Valentine**—Ready for market with a more prolific crop of pods a week earlier than the old Valentine. Pods one-third larger, averaging five to six inches in length. Always absolutely stringless, round, full and fleshy. More prolific and surpasses others in crispness and flavor. No market or family gardener can afford to miss planting the New Giant Valentine. It is the best dwarf green podded snap shoot ever offered, and is pronounced a wonder wherever it has been tried. Prices, pkt. 10c, qt. 30c, pt. 50c, by mail, postage paid; express or freight, peck \$2.

**New Stringless Green Pod**—Is ready to market two weeks earlier than the best stock of Improved Early Red Valentines. Stringless Green Pod supplies a long-felt want, is of immense value, not only to the market gardener who wants to make more money, but also to the amateur who seeks a rare quality early for the home table. Price, postpaid, pt. 25c, qt. 45c, peck \$1.75.

**Early Mohawk**—Excellent variety for early planting. One-quarter bu. \$1.25, qt. 45c, pt. 25c, pkt. 10c.

**Long Yellow Six Weeks**—Extra early, standard market sort. One-half bu. \$2.25, qt. 40c, pt. 25c, pkt. 10c.

**California Branch, or Tree**—Best bean for field culture. Very prolific. Bu. \$3.75, ¼ bu. \$2.00, qt. 30c, pkt. 10c.

**White Navy**—Standard bean for field culture. Bu. \$3.50, qt. 30c, pkt. 10c.

**Large White Marrowfat**—Extensively grown for sale in the dry state. Bu. \$3.50, qt. 30c, pkt. 10c.

**Henderson's Bush Lima**—Is enormously productive, bearing continuously throughout the summer until killed by the frost. Price, by mail, postpaid, pkt. 10c, ½ pt. 15c, pt. 25c, qt. 45c; by express or freight, peck, \$1.50.

**Dwarf Horticultural**—Very productive and fine for early shell beans. One-half bu. \$2.50, peck \$1.35, qt. 40c, pkt. 10c.

**Burpee's Bush Lima**—True bush form of the old Large Lima Pole Bean. It grows vigorously to a height of eighteen to twenty inches, bush two to two and a half feet in diameter, yielding from 50 to 155 pods, similar to those grown on the Large White Lima Pole Beans. Price, by mail, postpaid, large pkt. 10c, ½ pt. 15c, 1 pt. 25c, qt. 45c. By express or freight, peck \$2.00.

### WAX PODDED SORTS.

**Golden Wax**—Strong growing variety, very early and prolific. One-half bu. \$3.00, peck \$1.75, qt. 45c, pt. 25c, pkt. 10c.

**Crystal White Wax**—Very rich flavor, stringless and productive. One-half bu. \$2.75, peck \$1.50, qt. 45c, pt. 25c, pkt. 10c.

**Black Wax, or Butter**—Largely grown by market gardeners; early and productive. One-half bu. \$3.50, peck \$1.75, qt. 45c, pt. 25c, pkt. 10c.

**Wardwell's Kidney Wax**—Rust and spot proof; early and productive; fine. One-half bu. \$4.00, peck \$2.00, qt. 45c, pt. 20c, pkt. 10c.

**Refugee Wax**—Earliest wax bean in cultivation; immense yield. Peck \$1.50, qt. 45c, pt. 20c, pkt. 10c.

**Valentine Wax**—One of the very best wax beans in cultivation; round pod, extra early, delicious flavor, very popular with market gardeners. Pkt. 10c, pt. 25c, qt. 45c, peck \$1.50.

**Davis Kidney Wax**—A great shipper. A fine addition to our list of wax beans, the seed being pure white with absolutely no eye whatever. The bean for market gardeners and canners; bound to be the most popular wax bean in cultivation. Pkt. 10c, pt. 25c, qt. 45c, peck \$1.75.

### POLE OR RUNNING BEAN.

**Kentucky Wonder**—A bean that should be in every garden. Every farmer should have a supply of these beans. Pods remarkably long, round and pulpy. Pkt. 10c, pt. 30c, qt. 50c, peck \$4.00.

**Lazy Wife**—Very popular. As its name indicates, a handful of choice stringless pods at a single grab. May be grown either on poles or on corn. Pkt. 10c, pt. 25c, qt. 45c, peck \$2.50.

**Golden Andalusia Bean**—The finest bean ever introduced. It is undoubtedly the most tender podded bean known. May be grown either on corn or poles. Pkt. 10c, pt. 30c, qt. 50c, peck \$2.50.

**White Crease Back Green Podded Bean**—Pkt. 5c, qt. 40c, peck \$1.75.

**Red Cut Short, or Corn Hill Green Podded Bean**—Pkt. 5c, qt. 40c, peck \$1.75.

**Horticultural or Speckled Cranberry**—A hardy and productive variety. Can be used either for snap beans or shelling. Pkt. 10c, pt. 25c, qt. 45c, peck \$1.75.

**Dutch Case-Knife**—Very early and productive. Good picker. Pkt. 10c, pt. 20c, qt. 40c, peck \$1.50.

**Seibert's Early Lima Bean**—Produces pods earlier and continues in bearing longer than any other sort. Pods and green beans are large and of fine quality. Every up to date gardener will try it. Price, postpaid, pkt. 10c, pt. 25c, qt. 45c; express or freight, ½ peck \$1.20, peck \$2.50.

**King of the Garden Lima**—One of the best Pole Lima Beans grown. The pods are six to eight inches long, and contain five to seven beans of unusually large size. Pkt. 10c, pt. 30c, qt. 50c, peck \$2.50.

**Large White Lima**—A fine variety, either green or dry, for market and private use. Pkt. 10c, qt. 45c, peck \$2.00.

### BORECOLE, OR KALE.

**Dwarf German Green**—Extensively grown for winter greens. Sown broadcast or in drills one foot apart. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

**Green Curled or Scotch**—Dwarf, leaves bright green, beautifully curled; hardy. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 80c.

**Purple Kale**—Similar to Scotch Kale, except in color. Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. \$1.00.

**Moss-Back Winter**—Leaves fine curled; hardy. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

## BEETS.

*One ounce will sow 50 foot of drill.*

**Crosby's Egyptian Extra Early**—The best for market gardeners. A superior strain of blood-red Egyptian, carefully selected for years by Mr. Crosby, a noted market gardener, who aimed to secure a perfect forcing variety. Fine shape and rapid grower. May be sown outside as late as July. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**Vail's Early Dark Red Turnip**—The best deep red turnip beet for all around use. The small upright growing tops, early maturity and splendid shape and color of roots, make it popular with every one. Skin dark blood-red, flesh bright red, zoned with a lighter shade; very crisp, tender and sweet. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**Detroit Dark Red**—One of the finest red turnip-shaped varieties. Small, upright growing tops, fine shape, color of the skin is dark blood-red, and flesh deep bright red. Very crisp, tender and sweet; matures early, and produces a very uniform crop in shape. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**Extra Early Egyptian Blood Turnip**—A standard sort, being from ten to twelve days earlier than the old Blood Turnip. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

**Eclipse**—Globe-shaped variety; early as the Egyptian, and larger. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

**Extra Early Bassano**—Valuable market sort. Flesh white rose, encircled with bright pink; tender and sweet. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**Dewey's Improved Blood Turnip**—Roots deep rich red, of fine form and flavor. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

**Long's Smooth Blood Red**—Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

**Half Long Blood Red**—Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 50c.

## MANGEL WURZEL (for Cattle.)

*Use 5 lbs. to the acre; thin to stand 9 inches apart.*

Prices of either sort, Pkt. 3c, oz. 5c,  $\frac{1}{4}$  lb. 15c, lb. 35c, post-paid. By express or freight, 5 lbs. or more, 25c per pound.

**Mammoth Long Red**—Very large and productive.  
**Golden Tankard**—Deep yellow flesh and skin; grows mostly above ground; best for dairy purposes.

## SUGAR BEETS.

*Use 5 lbs. to the acre; thin to stand 6 to 8 inches apart.*

**Vilmorin's Improved**—Very early; flesh white and sweet. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

**Imperial Sugar**—A heavy yielder; the best sort for dairymen. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

**Kleine Wanzleben**—This is the best and most profitable sort for sugar making. Pkt. 5c, oz. 8c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

Write for special prices on quantities.

## BRUSSELS SPROUTS.

Sow in May, the same as Cauliflower, and transplant in July.

**Improved Dwarf**—The best variety. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c.

## BROCCOLI.

Nearly allied to the Cauliflower, but more hardy.

**Large White**—Resembling Cauliflower. Pkt. 5c, oz. 30c.  
**Purple Cape**—One of the hardiest sorts. Pkt. 10c, oz. 60c.

## CABBAGE.

## EARLIEST.

*One ounce will produce about 2,000 plants.*

**Vail's Early Spring**—The earliest flat heading cabbage in cultivation. It comes in as early as Charleston Wakefield, and, as the heads are of good size and flat shape, sells readily at the best market prices. The stems are very short, and the heads are formed very close to the ground; on this account should be planted on light soil, as heavy ground sometimes causes them to rot, especially if the season is very rainy. Our stock of this is strictly choice stock, grown by a careful cabbage specialist. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$3.00.

**Early Jersey Wakefield**—Selected stock. Very solid, cone-shaped heads of uniform size. The best for the early market. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$3.00.

**Charleston.** *The large Wakefield*—Selected from the above; larger and somewhat later. Pkt. 5c, oz. 25c;  $\frac{1}{4}$  lb. 75c, lb. \$3.00.

## SECOND EARLY VARIETIES.

**Winnigstadt**—A popular pointed sort, easily grown. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.00.

**All Head Early**—A very hardy cabbage. Heads large and flat. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Louisville Drumhead**—Very popular in the South, as it stands the heat better than the other kinds. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Vail's Early Flat Summer**—The earliest of the large flat sorts. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Early Flat Dutch**—A flat-headed, early ripening sort. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$2.00.

**Succession**—A valuable intermediate sort. Flat head. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**All Seasons**—Deep and thick heads; a splendid variety for any season. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Bloodsdales Early Drumhead**—Head large and flat; early to mature; one of the best. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

## LATE OR WINTER VARIETIES.

**Market Gardener's Flat Dutch**—Head flat, large, heavy, hard and smooth leaved. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

**Market Gardener's Late Drumhead**—Very heavy heads; not to be excelled. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$2.50.

**Surehead**—A variation of the Late Flat Dutch. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 75c, lb. \$2.00.

**Hollander**—A distinct sort; very hardy. Head round and very solid. A fine keeper. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c, lb. \$2.00.

**Drumhead Savoy**—Leaves crumpled like Savoy Spinach. Large flat heads of a delicate flavor. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c.

**Ulm Savoy**—Not so solid as the preceding. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c.

**Red Dutch**—Large heads; extensively used for pickling. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 75c.

## CARROTS.

**Early French Forcing**—The earliest variety; valuable for forcing; fine flavor. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Early French Shorthorn**—A favorite sort of early crop. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Half Long Scarlet Stump Rooted**—In form stump rooted and tapering, with small top. Flesh orange red. A standard and superior sort for either market or home use. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Oxheart or Guerande**—Intermediate length; fully 3 to 5 inches in diameter; quality extra good. Other sorts require digging; Oxheart can be easily pulled. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Rubicon**—An entirely new and distinct American Carrot; dark orange color. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**The Chantenay**—This new, half long Carrot is one of the heaviest croppers grown. Of beautiful orange color, very smooth, large shoulder, and is easily harvested. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Long Orange Improved**—Roots long, smooth and of a deep orange color; good for the table and field crops. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Improved Danvers**—Excellent variety, midway between Long Orange and Early Horn. Color rich orange. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Giant White Belgian**—This variety yields larger than any other. To the milkman it is very valuable, promoting a large secretion of milk of improved quality over that from dry food. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

## CAULIFLOWER.

One ounce will produce 1,000 plants.

**Vail's Improved Early Snowball**—The best for either early or late use, for family or market-gardener, for forcing or cold frames. Sure to head when others fail. Earliest of all, and every plant is certain to make a solid, compact head under careful culture. No other stock of Snowball can surpass it. Our stock is the original Snowball, and is grown especially for us by leading grower of Denmark. Pkt. 20c,  $\frac{1}{2}$  oz. \$1.50, oz. \$3.00,  $\frac{1}{4}$  lb. \$10.

## CELERY.

One ounce will produce about 3,000 plants.

**Winter Queen (H)**—The most valuable variety for winter and spring; much stouter, thicker and heavier than any other sort, with double the amount of heart. The plant is of compact growth and blanches to a beautiful cream-white. Ribs perfectly solid, crisp, of delicious nutty flavor. It is worthy of first place as a late Celery, and will keep longer than any other variety. Pkt. 10c, oz. 40c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Large White**—A long-stemmed sort, white, solid and crisp. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.25.

**Giant Pascal**—Very large. Silvery white. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.25.

**Golden Dwarf**—The central stems become golden in color; of fine flavor; a good keeper. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.25.

**Boston Market**—A favorite short variety; produces many stalks from one root. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.25.

**Golden Self-Blanching**—A valuable golden self-blanching sort; a first rate keeper; best quality. Pkt. 5c, oz. 40c,  $\frac{1}{4}$  lb. \$85c, lb. \$3.00.

**White Plume**—Unsurpassed for fall or early winter use, requiring very little earthing to blanch it. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c.

**Celeriac**—Turnip-Rooted Celery—Used for stews and soups; roots resemble a turnip. Pkt. 5c, oz. 15c.

**Flavoring Celery**—Used for flavoring soups, sauces and pickles. Will not grow. Oz. 5c, lb. 30c.

## COLLARDS.

**Creole of Georgia**—A loose variety of Cabbage much used in the South. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c.

## CORN SALAD.

**Broad Leaved**—A valuable green, used same as Spinach. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 75c.

## CORN (Sweet).

One quart will plant 200 hills.

**Kendel's Early Giant**—This excellent variety is the largest Early Sweet Corn yet introduced. The ears are 8 to 10 inches long and 10 to 18-rowed, averaging 12 rows. The kernels are purest white, sweet, tender, palatable. Quite prolific, and matures in from 65 to 70 days, according to soil and location. A very valuable variety, both for market-gardener and private planter. Pkt. 10c, pt. 15c, qt. 30c, 4 qts. 75c, pk. \$1.00.

**Extra Early Adams**—Ready for table in sixty days. Much used for the early market. Pkt. 5c, pt. 18c, qt. 30c, peck 75c, bu. \$3.00.

**Adams Early**—Ten days later than the above, but more vigorous and productive. Pkt. 5c, pt. 18c, qt. 30c, peck 75c, bu. \$3.00.

**Landreth's Early Market**—A cross between Adams Early and the Evergreen. Very productive. Pkt. 5c, pt. 18c, qt. 30c, pk. \$1.00, bu. \$3.00.

**Egyptian**—Very early and productive. Pkt. 5c, pt. 18c, qt. 30c, peck 75c, bu. \$2.50.

**Early Concord**—A little larger and later than the Crosby. Pkt. 5c, pt. 18c, qt. 30c, peck 90c, bu. \$3.50.

**Country Gentleman**—A variety of great productiveness and exquisite flavor. Pkt. 5c, pt. 18c, qt. 30c, peck \$1.00, bu. \$3.50.

**Landreth**—A standard sort of high reputation; quality unsurpassed. Ready for use in 75 days. Pkt. 5c, pt. 20c, qt. 35c, peck \$1.00, bu. \$3.50.

**Early Mammoth**—An early, large-eared sort. Pkt. 5c, pt. 18c, qt. 30c, peck \$1.00, bu. \$3.50.

**Stowall's Evergreen**—The standard variety. One of the sweetest, remaining eatable a long time. Pkt. 5c, pt. 18c, qt. 35c, peck \$1.00, bu. \$3.50.

## CRESS.

**Curled Pepper Grass**—An appetizing salad; the best variety for dry soils. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 40c.

**Water Cress**—Very pungent. Also used as a garnish. Sow by running streams. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

## CUCUMBER.

One ounce will plant 50 hills; two pounds to the acre.

Price of any kind: Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c, post-paid. By express or freight, 50c per lb.

**Short Prolific Pickle**—Vine very compact; can pick 50 days from planting.

**Jersey Pickle**—The standard sort for salting, as it has a uniform shape and holds its color best.

**Early Cluster**—Early, of good form, very productive.

**Early White Spine**—Of good size, holding its color well; a good shipper and best for market.

**Early Frame**—An old standard sort, of good form and size.

**Medium Green**—Useful either for forcing, for pickling or for ordinary table use.

**Boston Pickling**—A favorite with pickle manufacturers; of good form and very productive.

**Long Green**—The leading long variety. Fruit dark green, firm and crisp.

**Gherkin or Burr**—Very small fruits, used only for pickles.

**Emerald**—Cool and crisp.

## CLIMBING JAPANESE HERBS.

They should have a place in every vegetable garden.

**Basil, Sweet**—Annual; pkt. 5c. **Caraway**—Perennial; pkt. 5c. **Catnip**—Perennial; pkt. 10c. **Castor Oil Plant**—Annual; pkt. 5c. **Coriander**—Annual; pkt. 5c. **Dill**—Annual; pkt. 5c. **Fennel**—Perennial; pkt. 5c. **Horehound**—Perennial; pkt. 5c. **Lavender**—Perennial; pkt. 5c. **Marjoram, Sweet**—Perennial; pkt. 5c. **Rosemary**—Perennial; pkt. 10c. **Saffron**—Annual; pkt. 5c. **Sage**—This hardy perennial is used more than any other for flavoring and dressing; pkt. 5c, oz. 20 Savory, Summer—Annual; pkt. 5c, oz. 20c. **Thyme, Broad-Leaved**—Perennial; pkt. 5c, oz. 40c. **Tansy**—Perennial; pkt. 10c, oz. 50c. **Wormwood**—Perennial; pkt. 5c, oz. 30c.

## EGG PLANT.

**Improved New York Purple**—The leading market variety everywhere, being early, a sure cropper, and of excellent quality. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 85c, lb. \$3.00.

## ENDIVE.

**Green Curled**—Very hardy; leaves dark green, tender and crisp. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.75.

## KOHL-RABI.

**Early White Vienna**—Greenish white outside; flesh white and tender. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

## LEEK.

**Broad or London Flag**—(Best American.) A favorite variety with the market gardeners. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.



# LETTUCE.

(One ounce of seed will produce about 1500 plants.)

**Grand Rapids**—A splendid sort for forcing under glass, for which purpose it is largely used. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

**Black-Seeded Simpson**—Leaves thin, very tender, of superior quality and of very light green color, which prevents any wilting of the plant being noticed; extensively grown by our market gardeners either for forcing or general crop. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Big Boston**—Identical in shape, color and general appearance with the famous Boston Market Lettuce, but double the size. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c.

**Tilton's White Star** (Seed white)—A distinct sort of the Black-Seeded Simpson type, but grows larger and more rapidly, leaves broader, thicker, darker and less frilled at the edge. Large, loose head, blanches well and of excellent quality. Plants remain long for use before running to seed. For forcing and early planting outdoors. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 35c, lb. \$1.00.

**Iceberg**—The leaves have small indents, which are constantly filled with dewdrops, thus keeping them always fresh and giving them a crystalline appearance, hence the name. The Iceberg is the hardest heading sort we know. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 35c.

## VAIL'S WONDERFUL.

One of the best for resisting heat. Extra large, with solid pale green, tender heart; crisp and sweet; an excellent variety for market gardeners. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 60c, lb. \$2.00.

**Prize Head**—Very large, handsome heads, sweet and tender; fine for open ground. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 30c, lb. \$1.00.

## STANDARD SORTS.

Any of the following, postpaid—Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. \$1.00:

**Brown Dutch, Boston Curled, Salamander, Henderson's New York Cabbage, Mammoth Yellow-Seeded Butter.**

**Golden Gate**—Large, magnificent, cream-colored heads. For spring and summer sowing it is superior to any other sort. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

# MUSHROOMS.

Full directions for making Mushroom Beds sent on receipt of 10c.

The culture of Mushrooms is easy if you plant fresh and thoroughly reliable spawn. They can be grown in the cellar, in sheds, in hotbeds, or in the open air. English spawn is best. It comes in bricks weighing about a pound each. A single brick will plant a bed 2x6 feet. Per single brick 25c, or 5 lbs. for \$1.00, postpaid; by express or freight, 10 lbs. \$1.25, 25 lbs. \$2.75, 50 lbs. \$5.00, 100 lbs. \$9.00. Special price will be quoted on lots of more than 100 lbs.

# MUSTARD.

One ounce will sow about 80 feet of drill.

**CULTURE**—For early salads, sow in hotbeds in March, and for a general crop at intervals through the spring in rows 6 inches apart, and rather thick in the rows. Cut when an inch or two high.

**Southern Giant Curled**—Leaves twice the size of ordinary White Mustard. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 40c.

**White London**—Best for salads. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

**Brown or Black**—More pungent in flavor than the White. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 15c, lb. 40c.

# NASTURTIUM.

Indian Cress.

**Tall Mixed**—The best for pickling, seed pods, or garnishing. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Dwarf Mixed**—Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

# MUSK MELON.

One ounce to 60 hills; 2 to 3 pounds per acre in hills.

## CHICAGO MARKET.

This exceedingly valuable nutmeg variety originated as a result of careful selection, with one of Chicago's most successful market gardeners and melon growers. It continues to hold the highest place in the estimation of market men, holding its own year after year against all comers. It matures early, ripens evenly, and is of uniform size. The fruit is large, nearly round in form, and flattened at the ends. Flesh thick and of most delightful flavor. It is a green fleshed variety, and in good demand among Chicago hotels. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**Paul Rose**—A valuable melon for shipping in baskets. Fruit about five inches in diameter, nearly round. Solid, with very small seed cavity. Flesh salmon color and of good quality. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 85c.

**Rocky Ford**—A new and valuable melon which, within a very short time, has attained national fame for dainty appearance, excellent quality and delicacy of flavor. It is of the Netted Gem type, oval in shape, averaging 4 inches in length. Flesh has a delightful aroma, is juicy and rich, color greenish white. Nearly all prominent hotels, east and west, now include the Rocky Ford melon in their bill of fare. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Tip Top**—There is a distinctness about this melon which readily enables any one to select it in a group. The universal testimony of every one cultivating the Tip Top is, that every fruit produced, whether big or little, early or late in the season, is a good one—sweet, juicy, fine flavor, firm, but not hard fleshed, eatable to the very outside coating. As a yielder it is not surpassed. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Emerald Gem**—A small, very early sort, that is without doubt the most delicious table melon extant. Form flat-round. Flesh deep orange, very thick, with small seed cavity. Skin smooth, dark green. The quality is all that can be desired. This melon is not a good shipper. We commend it to all for home use. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 75c.

**Acme, or Baltimore**—Very productive; early, oblong, has light green flesh; fine flavor; a good shipper. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 75c.

## STANDARD SORTS.

The following line of Musk Melons comprise the best of the old established varieties at the following prices: Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 75c.

**Hackensack, Cape May, Christina, Golden Netted Gem, Bay View, Montreal Market, Early June.**

# Okra, or Gumbo.

(12 ounces of seed to 100 yards of row.)

**CULTURE**—In mild climates plant late in the spring, after the ground has become warm, in hills about 2 $\frac{1}{2}$  feet apart, and thin to three plants in a hill. The pods should be gathered when quite young and tender.

**Dwarf Prolific, or Density**—Long, slender pods; very productive. Best for cool climate. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 45c.

**White Velvet**—Pods smooth, tender, velvety. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 45c.

**Lady Finger**—Very prolific; produces long, slender pods, which are particularly tender and choice. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 50c.

# WATER MELON.

1 oz. to 30 hills, 4 to 5 lbs. in hills to an acre.

## TRIUMPH WATER MELON.

The leading characteristics of this fine new melon are earliness, fine shape, thin, tough rind, great productiveness, attractive color and excellent quality. It is a cross between Duke Jones and Kolb's Gem. It has the handsome appearance of the former and the shipping qualities of the Gem, very early, very prolific, deliciously sweet and of enormous size. It possesses all of the qualities that go to make up a desirable Melon. Pkt. 5c, oz. 10c, 1 lb. 30c, lb. \$1.00.

## HOOSIER KING.

A melon with exceptional qualities. The melons grow oblong and are of an even diameter through their entire length. The flesh is brilliant red, very solid, sweet and luscious. The skin is striped light and dark green; the rind is very thin, but exceedingly hard, which renders it a valuable shipping sort, as well as a desirable variety for family and market purposes. Pkt. 5c, oz. 10c, 1 lb. 20c, lb. 60c.

## SWEETHEART.

This variety has no equal as a melon to ship to distant markets, and it is so attractive in appearance that it is readily sold when all others are a drug. Of the largest size, a little longer than thick, but nearly globular in shape. Skin very bright, beautiful mottled green. Flesh bright red, firm and heavy, but crisp, melting and exceedingly sweet. This melon is not only a good keeper, but it improves in quality for a long time after ripening. Seeds dark gray. That which we offer is grown from the original stock and is genuine Sweet Heart. Pkt. 5c, oz. 10c, 1 lb. 20c, lb. 60c.

Standard sorts at the following prices: Kentucky Wonder, Pride of Georgia, Peerless or Ice Cream, Kolb Gem, Florida Favorite, Pinney's Early Mammoth Iron-clad. Pkt. 5c, oz. 10c, 1 lb. 20c, lb. 60c.

## KLECKLEY'S SWEETS (J).

Reports from all sections confirm this new watermelon to be just what the originator, Mr. W. A. Kleckley, of Alabama, claims for it—one of the best and sweetest-flavored in cultivation. Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality. For the home market or family garden it is decidedly one of the best. Pkt. 5c, oz. 10c, 1 lb. 30c, lb. \$1.00, postpaid; (5 lbs., by express, \$4.25.)

# ONION SEED.

1 oz. to 100 ft. of drill; 6 lbs. to an acre.

**Extra Early Red**—Very early and productive, of mild flavor, medium size, solid and of deep red color. Pkt. 5c, oz. 10c, 1 lb. 50c, lb. \$1.50.

**Southport Yellow Globe**—A very large, handsome, globular-shaped yellow variety; very productive, of mild flavor; excellent keeper. Pkt. 5c, oz. 10c, 1 lb. 50c, lb. \$1.50.

**Extra Early Bloomsdale Pearl**—Remarkably early, pearly white; translucent; growing almost with the rapidity of a radish; flat; exceedingly large. Pkt. 5c, oz. 15c, 1 lb. 75c, lb. \$2.75.

**Yellow Dutch, or Strasburg**—A standard sort, grown largely for sets. Grows large, oval and somewhat variable in form. Flesh white, fine grained and mild in flavor; skin yellow. Very hardy and a good keeper. By mail, postpaid, pkt. 5c, oz. 10c, 1 lb. 35c, lb. \$1.00.

**Southport Red Globe**—The Onions from Southport, Conn., generally command an extra price in the New York markets because of their beautiful shape and color. The variety is of medium size, spherical, with small neck, rich red color, and of superior quality. Pkt. 5c, oz. 10c, 1 lb. 50c, lb. \$1.50.

**Large White Globe**—One of the finest Onions in cultivation, both in appearance and quality. Bulbs large, globe-shaped and pure white. Pkt. 5c, oz. 15c, 1 lb. 60c, lb. \$2.00.

**Yellow Cracker**—The great money-maker. Gardeners who have grown it have realized large profits. No other American Onion can approach it in earliness, being fully a week earlier than the Extra Early Red, an excellent sort to grow where the seasons are short. Handsome shape; flesh white and of excellent quality; enormous cropper and possesses superior bottoming qualities, making it the best variety for sets, as almost the entire crop can be grown without a single scullion. Pkt. 5c, oz. 10c, 1 lb. 50c, lb. \$1.25.

**Extra Large Red Wethersfield**—This variety is grown exclusively by large growers as the most productive and profitable sort, producing from four to six hundred bushels per acre of extra large onions the first season from seed. Our strain of this variety produces onions of extra large size; fine grained and mild flavor. Pkt. 5c, oz. 10c, 1 lb. 25c, lb. 75c.

**White Portugal or Silver Skin**—Ripens early, large in size, mild in flavor, excellent for winter use. Much esteemed for pickling when small, and grows a handsome, good keeping set when sown too thick to grow big onions. Pkt. 5c, oz. 15c, 1 lb. 60c, lb. \$2.00.

**Mammoth Prize Taker Onion**—A beautiful, large, light golden yellow, rapid grower; matures early; flesh is firm, mild and transparent. Good keeper and creates great wonder and demand in market. Pkt. 5c, oz. 15c, 1 lb. 50c, lb. \$1.50.

**Mammoth Silver King**—The largest white variety ever introduced, and is tender, mild and early. Great size and attractive shape will place it in the front rank. They are so very mild and so pleasant to the taste they can be eaten like an apple. The skin is clear, silvery white. Pkt. 5c, oz. 15c, 1 lb. 60c, lb. \$1.75.

**Thorburn's Excelsior White Pickling**—The best sort for pickling. Bulbs of medium size and flattened. Skin pure white, flesh white, fine grained and mild flavor. Grown extensively by our market gardeners, especially for pickling purposes. Pkt. 5c, oz. 15c, 1 lb. 60c, lb. \$2.00.

**White Queen**—A rapid-growing, silver-skinned variety, of mild flavor; early and excellent for pickling. Pkt. 5c, oz. 15c, 1 lb. 60c, lb. \$2.00.

**Yellow Flat Danvers**—An excellent variety, differing from the Globe strain in shape only, being more flat. The quality is excellent, and it makes a most desirable variety to grow for sets and for keeping purposes. Pkt. 5c, oz. 10c, 1 lb. 25c, lb. 75c.

## ONION SETS.

1 quart to 100 feet of drill.

White Bottom Sets.....	Qt. Postpaid.
Yellow Bottom Sets.....	30c
Red Bottom Sets.....	30c
Potato Onions.....	35c
Top Onions.....	35c
White Multipliers.....	35c
Yellow Multipliers or Shallots.....	35c
Egyptian or Tree.....	25c
Red Wethersfield.....	\$2.00 per bushel
Flat Danvers.....	\$2.00 per bushel
Silver Skin, White.....	\$2.50 per bushel

Not Cash.  
Owing to the fluctuation on the Onion Set market, we would advise all our customers to write us before purchasing in quantity.

## PARSLEY.

**Double Curled**—This variety is extensively used for garnishing. Dwarf and finely curled; tender and highly flavored. Pkt. 5c, oz. 10c, 1 lb. 50c.

**Plain**—Leaves finely cut and flat and very dark colored. It is often preferred on this account because of its hardness. Pkt. 5c, oz. 10c, 1 lb. 20c, lb. 50c.

**Turnip-rooted, or Hamburg**—The root, which resembles a small parsnip, is the edible portion of this variety. Extensively grown and used for flavoring soups, etc. Pkt. 5c, oz. 10c, 1 lb. 20c.

## PARSNIPS.

**Improved Long Hollow Crown**—The only variety of Parsnip that our trade, which is largely with experienced market gardeners, will have. Roots long, smooth, and free from side roots; tender, sugary and well flavored. Parsnips are improved when touched by frost. Pkt. 5c, oz. 10c, 1 lb. 15c, lb. 40c.

Are you interested in Chickens?

See Poultry Supply Department.

## PEAS.

One quart will plant 100 feet of drill;  $1\frac{1}{2}$  bushels for one acre.

**First of All**—Profitable for early market; a very valuable, improved strain, exceedingly productive and pods well filled; ready for table in 45 days; earliest of all known sorts. Grows about 18 to 24 inches high. Half pint 10c, quart 20c, quart 30c,  $\frac{1}{2}$  bu. 30c,  $\frac{1}{4}$  bushel \$1.75, bushel \$3.25.

**Landreth's Extra Early**—(Sealed bags.) This variety is known the world over as one of the best Extra Early Peas in existence. Ripens very evenly; peas smooth; vines 2 to 3 feet in height and vigorous; pods well filled. By mail, postpaid, pkt. 10c, quart 35c, pkt. \$1.50.

**Alaska**—One of the earliest; height,  $2\frac{1}{2}$  feet; pods large and well filled; peas smooth, light blue in color and very tender; used largely by canners. 10c, quart 35c, bushel \$1.50.

**Stratagem**—Vines 2 feet; blue wrinkled marrow of recent introduction; vines of such strong growth as to need no support, and remarkably free bearing. Pkt. 5c, quart 35c, pkt. \$1.25.

**Champion of England**—The standard late variety for either market or home use. Pkt. 5c, quart 30c, pkt. \$1.25.

**Allan's Admiral Dewey**—Without exception the largest podded pea of which we have any knowledge, and when to this is added heavy cropping and highest quality, it can readily be seen that it stands at the head of its class. Height,  $2\frac{1}{2}$  feet; foliage, vine and pod a rich dark green, remarkably healthy and vigorous, producing in abundance, pods of largest size, frequently 6 inches in length, beautifully shaped, well filled with peas of largest size and fine flavor; seeds, in the whole, rounded. Undoubtedly the best of all the class of long vine, large podded peas. Pkt. 15c, pint 25c, quart 45c,  $\frac{1}{4}$  bushel \$2.00.

**American Wonder**—One of the earliest dwarf wrinkled sorts; growth, about 10 inches in height, and is covered with well filled pods often containing seven or eight tender and deliciously sweet peas. Pkt. 5c, quart 40c, peek \$1.25, bushel \$3.00.

**Premium Gem**—Fine dwarf pea, of the Little Gem type; pods long, dark green in color and well filled. Pkt. 7c, quart 35c, peek \$1.00.

**Allan's Dwarf Telephone**—Very profitable for market gardeners; height under high cultivation, 18 inches; habit dwarf; stock, healthy and vigorous; remarkably uniform in height with almost no tendency to sport; very productive, plants frequently bearing from three to seven pods per season, medium, from five to seven days earlier than Stratagem; pods long, frequently five inches in length, broad, straight, round or curved at the end; remarkably well filled often containing ten peas; color of largest size, tender and of good lasting quality for market purposes; seed of largest size, tender and of delicious flavor. Pkt. 10c, quart 40c, peek \$2.50.

**Gradus or Prosperity**. The Pea for Market Gardeners—The most attractive novelty of recent years; large, handsome pods, resembling Telephone in size and shape, well filled with large peas, ripening with the Telephone. As soon as the pods begin to be green, they are very quickly; the pods must be picked as soon as they are fit for the table. Habit vigorous, very quick to germinate and push to maturity; foliage large, pale green in color; pods long, straight, slightly rounded at the point. The peas are wrinkled, very large, of splendid quality and beautiful color, which they retain after cooking. Pkt. 10c, pint 25c, quart 45c,  $\frac{1}{4}$  bushel \$3.00.

**Telephone**—For main crop; height three feet; seeds large, green, wrinkled, enormously productive and of the very best quality. It is a strong grower, averaging 18 pods to the stalk. Pkt. 5c, quart 35c. By express or freight,  $\frac{1}{4}$  bushel \$1.50, bushel \$5.00.

**Bliss' Abundance**—Vine half dwarf, bush-like in habit and literally covered with large, full, evenly matured pods. Pkt. 5c, quart 30c,  $\frac{1}{4}$  bu. \$2.25.

**McLean's Little Gem**—Dwarf green, wrinkled marrow; very prolific, of superior flavor and a first early; needs no support; for family use it is one of the best. Pkt. 5c, quart 40c, peek \$1.50, bushel \$5.00.

**Bliss' Everbearing**—As indicated by its name, it is almost a perpetual bearer, blossoming and setting young pods late in the season, after finishing the table with choice supplies for weeks. Pkt. 5c, quart 30c, peek \$1.25.

**Pride of the Market**—Our stock of this variety is very fine, and largely grown by our Indianapolis market gardeners for second crop. Vines grow about two feet high, well filled with large, dark green pods, which are generally borne in pairs at the top of the vines. Peas large, dark green and slightly wrinkled; sure to give general satisfaction. By mail, postpaid—pkt. 10c, quart 45c. By express or freight,  $\frac{1}{4}$  bushel \$1.50, bushel \$5.00.

**Horsford's Market Garden**—One of the best second early peas; a cross between the Alpha and American Wonder. It grows from 20 to 30 inches high, always in pairs. Pkt. 10c, quart 35c, peek \$1.50.

**Not's Excelsior**—A dwarf wrinkled pea of excellent quality, coming in between American Wonder and McLean's Little Gem. Very sweet; excellent for home use. Pkt. 5c, quart 35c, peek \$1.75.

**Telegraph**—Stronger growing and harder than Telephone, and has darker colored foliage. Pods fully as large and darker green. Pkt. 10c, quart 35c. By express or freight,  $\frac{1}{4}$  bushel \$1.50.

**Sharpe's Queen**—(30 in.) In habit, cropping qualities, color and flavor it is the perfection of a pea for every purpose, and by successive sowings continues to produce until the object is attained, and can be cultivated to any other variety. Pkt. 10c, pint 25c, quart 40c,  $\frac{1}{4}$  bu. \$1.50.

**Large Black or White-Eyed Marrowfat**—Pkt. 10c, pint 20c, quart 30c. By express or freight,  $\frac{1}{4}$  bushel 90c, bushel \$3.60.

**Tall Gray Sugar**—Edible pods. Used in green state same as green beans. By mail, postpaid—Pkt. 10c, quart 30c.

One ounce will produce about 2,000 plants.

**Culture**—Sow in hotbed in April, and in warm, settled weather transplant 18 inches apart in outdoor rows 3 feet apart, or when all danger of frost is past sow in the open ground and thin.

**Ruby King**—This is the ideal Pepper for filling and for pepper-hash. Each plant produces from 6 to 12 handsome, large, mild fruits. Grows twice the size of Bull Nose. Exceedingly mild flavor. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Improved Golden Queen**—Bright golden yellow; most productive of all. Fruits large, handsome, mild and pleasant. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.25.

**Large Bell, or Bull Nose**—Early, large, red, mild. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Long Red Cayenne**—Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50.

**Sweet Mountain**—Larger than Bull Nose; productive, sweet, mild. Pkt. 5c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.25.

## PUMPKIN.

Two pounds of seed per acre.

**King of the Mammoths**—Originated in France, where it is justly styled "King of the Mammoths." It frequently reaches the enormous weight of 200 pounds and over. Flesh and skin of a bright yellow color, fine grained and of excellent quality. Don't fail to order a package. Pkt. 5c, oz. 20c,  $\frac{1}{4}$  lb. 50c, lb. \$2.00.

**Quaker Pie**—A distinct variety of much merit. The shape is nearly oval, tapering slightly towards the ends. Creamy white, both inside and out; flesh sweet and rich, and an excellent keeper. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Japanese Pie**—Crooknecked variety, with extremely small seed cavity; nearly all solid meat; quality extra fine. Seeds distinct in appearance, being curiously sculptured in the manner of Chinese letters. Productive; ripens early; medium size; good keeper. Easily cut and dried like apples, and makes excellent pies and sauce for winter use. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 75c.

**Large Cheese**—One of the best for table use; flat; skin orange; flesh yellow and sweet; very productive. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**True Tennessee Sweet Potato**—An excellent variety for pies. Pear-shaped, medium size; flesh and skin creamy white; fine grained; very sweet and delicious; a good keeper. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**Indiana Field or Sugar**—The common Sweet Pumpkin, grown extensively for home use and stock feeding. Pkt. 5c,  $\frac{1}{4}$  lb. 10c, lb. 25c. By express, lb. 15c.

**Cushaw**—Long yellow, crookneck; splendid for table use or for feeding stock. Flesh yellow; fine grained and sweet. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c.

## RHUBARB.

**Linnaeus**—Earliest of all; very productive and highly flavored. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c.

**Victoria**—Very large, well developed stalks. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c.

## SALSIFY.

Or Vegetable Oyster.

**Mammoth Sandwich Island**—At least twice the size of the ordinary sort, and resembles a good-sized parsnip. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 50c, lb. \$1.50.

**Long White French**—Long white, tapering roots; of excellent quality. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c.

## SPINACH.

Ten to twelve pounds to acre, in drills.

**Bloomsdale Savoy Leaved**—The leaves of this variety are large, succulent and much wrinkled or curled, like the Savoy Cabbage. Extensively grown by our market gardeners. Oz. 5c, lb. 40c.

**Long Standing**—One of the best varieties for spring sowing, as it stands fully two weeks longer than any other sort before running up seed. A valuable variety. Oz. 5c, lb. 25c.

**Prickly, or Fall**—The hardest variety; will stand the severest weather with slight protection. The seed is prickly; leaves oblong, pointed and of good quality. Used exclusively for fall sowing. Oz. 5c, lb. 25c.

**Bloomsdale**—In bulk, 25 cents per pound, 5 pounds \$1.00.



# RADISHES

One Ounce will sow 100 feet of Drill; 10 Pounds will sow an Acre.

## NEW RADISH—TRIUMPH.

This is a peculiar and valuable Radish. The root is globe-shaped and strikingly handsome for its horizontal, bright scarlet stripes on a white ground, making a charming effect on the table. Although fit for open ground, it is of greater value for forcing purposes, being quite short-leaved and of very quick growth, and the warm moistness of hotbeds renders its peculiar color more prominent. After a thorough trial, we can recommend this Radish to come true from seed, and gardeners say they "sell on sight." Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 60c.

## VAIL'S NEW (H) DAINTY FORCING.

As a forcing Radish this excellent variety has achieved a great reputation in Germany, where we procured our stock of seed. It is decidedly the earliest of all forcing Radishes, of nice oval form and remarkably short-leaved. Its unique, splendid scarlet color, fine size and tenderness, with quality of never getting woody, render it of great value. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c.

## NEW RADISH—ICICLE.

The finest long white forcing Radish known. The name is derived from the almost transparent whiteness of the root, which has no comparison among all existing Radishes. The leaves are short; the taste is exceedingly fine. If well cultivated, Icicle produces its  $3\frac{1}{2}$  to 4 inches long, cylindrical roots within 22 days from date of sowing. We find that for successive planting Icicle succeeds as well in midsummer as when sown early and even in an advanced state it retains its fine flavor, never becoming woody. Pkt. 10c, oz. 25c,  $\frac{1}{4}$  lb. 75c, lb. \$2.50, by mail, postpaid.

## HOLMES' ROYAL RED FORCING.

Earliest Radish grown, unexcelled for forcing. Roots small, globular, deep rich red; flesh white, crisp, very tender. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 30c, lb. 75c.

## EXTRA EARLY SCARLET GLOBE.

Roundish oval, brilliant red, solid, crisp, very mild. Makes delicious, tender Radishes in 20 to 22 days. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Extra Early Scarlet Turnip**—Of medium size, bright scarlet; quality superior. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 65c.

**Scarlet Turnip, White-Tipped**—Very popular, early, solid and crisp. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 70c.

**Scarlet Turnip, White-Tipped Forcing**—Same as above, but a week earlier; quality excellent. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Vail's Earliest Scarlet Button**—Early, crisp, tender; good for forcing. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## FELTON'S WHITE BOX.

The best of the White Turnip Radishes; quality excellent. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 90c.

**Early White Turnip**—White fleshed, tender, crisp, sweet. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 65c.

**Golden Globe**—Brilliant golden yellow; best for summer. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Large White Globe**—Very crisp and brittle; grows quickly and withstands heat. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Scarlet Olive Shaped**—White flesh, mild; fine for summer. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 75c.

**White Olive-Shaped**—Handsome, pure white, crisp, tender. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## LONG RED.

**Early Long Scarlet Short Top**—Bright red, straight, brittle, crisp, smooth, of excellent flavor. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 65c.

**Long Brightest Scarlet (Long Cardinal)**—Beautiful carmine; ready to use in about 25 days. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Wood's Early Frame**—Long, red, crisp; good forcing. Pkt. 5c, oz. 10c, lb. 25c, lb. 75c.

**Improved Chartier**—Long, crimson, with white tip. Remains fit for use until very large. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Cincinnati Market**—Very small tops; long, scarlet, straight, smooth roots. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

**Half-Long Deep Scarlet (Paris Beauty)**—A southern favorite; of fine quality. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## LONG WHITE.

**Long White Vienna, or Lady Finger**—Skin and flesh pure white, mild, sweet, crisp, brittle; of quick growth. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 70c.

**New White Strasburg**—Large, white; 4 to 5 inches long and about 2 inches thick; excellent for summer use. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 70c.

## OLIVE-SHAPED.

**French Breakfast**—Very tender and beautiful; oval, scarlet tipped white. Good for forcing or open ground. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 25c, lb. 75c.

## WINTER VARIETIES.

**White Chinese, or New Celestial (Stump Rooted)**—Ready for use when 3 inches long, and delightful until 6 inches long; for finest winter Radishes sow in August. Flesh firm, crisp, solid, pure white, always tender. Pkt. 5c, oz. 15c,  $\frac{1}{4}$  lb. 30c, lb. 85c.

**Chinese Rose Winter**—Of beautiful rose color; excellent. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 60c.

**Round Black Spanish**—Globe-shaped; flesh white. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 25c, lb. 70c.

**Long Black Spanish**—Skin black; flesh white, firm, fine. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 65c.

**California Mammoth White Winter**—Immense roots, about a foot long, 2 to 3 inches thick, tapering regularly. Flesh white, solid, excellent. Keeps well. Pkt. 5c, oz. 10c,  $\frac{1}{4}$  lb. 20c, lb. 65c.

## SQUASH.

One ounce will plant 20 to 40 hills, according to size of seed;  
4 to 6 pounds will plant one acre.

## NEW SWEET NUT SQUASH.

When only half grown and cooked green, as summer squashes, they are dry, fine flavored and delicious. Cut in slices and fried, like egg plants, they can hardly be distinguished from that excellent vegetable, but their greatest value consists in being used as a winter Squash. When pulled before frost, laid away in a dry room or cellar, they will keep sound and sweet the whole winter through. For making pies, custards, etc., their beautiful yellow flesh possesses a dry, rich, sweet flavor, even without the use of sugar. Pkt. 5c, oz. 10c. ¼ lb. 25c, lb. 80c.

## POPULAR WELL-KNOWN SQUASHES.

Large Packets, 5 Cents Each.

If ordered sent by express or freight,  
deduct 10c per lb.

By mail, postpaid.  
Oz. ¼ lb. lb.

White Bush Scallop—The well-known white Patty Pan.....	\$0 10	\$0 20	\$0 50
Early Golden, or Yellow Bush—Differs in deep orange color.....	10	20	50
Golden Summer Crook-Neck—Small, yellow crook neck.....	10	20	60
White Pineapple—Peculiar shape, white skin, great keeper.....	10	20	50
Hubbard—Old favorite winter.....	10	30	1 00
Chicago Warty Hubbard—Improved large, distinct strain. More vigorous, skin and flesh darker.....	10	30	1 00
White Chestnut—Sweet yellow flesh; dry as a boiled chestnut.....	10	20	50
Boston Marrow—Bright orange; fine for autumn use.....	10	20	50
Early Orange Marrow—Earlier; very productive, fine.....	10	20	60
Faxon—A most productive winter Squash; best of keepers.....	10	20	60
Fordhook—Early, sweet and dry.....	10	25	70
Essex Hybrid, or Warren.....	10	20	60
Mammoth Chili—The Jumbo of all, often weighing 200 pounds.....	15	35	1 25

## TOBACCO SEED.

Connecticut Seed Leaf—Saved from selected plants. Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

Havana—Genuine imported seed, direct from Cuba. Pkt. 10c, oz. 35c, ¼ lb. \$1.00, lb. \$3.75.

Pennsylvania and Lancaster Broad Leaf, each, pkt. 10c, oz. 25c, ¼ lb. 75c, lb. \$2.50.

## NEW CUSTOMERS

As this Catalogue will reach many who have never had our Seeds, we would urge such to send us a trial order, no matter how small. Even though you may now be satisfied with seeds bought elsewhere, we believe our special strains of many of the newer varieties will be found as profitable to you as they have been to thousands of others.

## TOMATOES.

One ounce will produce 1,200 plants.

**Beauty**—Medium size; purple in color; ripens evenly without cracking, and is free from rot; a valuable sort for market gardeners. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. \$2.00.

**Perfection**—One of the best sorts, large and early, smooth, bright red, thick meat, ripens uniformly and bears abundantly until frost. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. \$2.00.

**New Stone**—An excellent new red; grows to very large size; form round, perfectly smooth, and of bright red color; ripens evenly to the stem without cracking, and is free from hard core. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. \$1.75.

**Favorite**—One of the most perfect shaped tomatoes grown; very smooth, color dark red, ripens evenly and early. Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. \$2.00.

**Honor Bright**—Matures and ripens very slowly, and from the center outward rather than at the surface first, as do most sorts. In this process the fruit turns first ivory white, then yellow, over which there creeps a bluish of pink, which gradually deepens until, when fully ripe, the fruit is an exceedingly beautiful red. The fruit can be picked when just passing out of the white stage, wrapped in paper, packed in boxes and shipped by freight, 2,000 miles, and on arrival at destination will be firm, ripe, and a brilliant red color. Pkt. 5c, oz. 25c, ¼ lb. 75c.

**Buckeye State**—One of the largest fruited varieties ever put out; unquestionably the heaviest cropper known; matures with the Livingston's Stone. The color is much the same as Livingston's Beauty. Pkt. 5c, oz. 20c, ¼ lb. 50c.

**Fordhook First**—Extremely early; ready to market as soon as the rough, unshapely fruits of the old Early Richmond type. These varieties, such as Earliest of All, Early Ruby, Atlantic Prize, King of the Earlies, etc., for either market or home use, we recommend the Fordhook First. Pkt. 5c, oz. 20c.

**Dwarf Champion or Tree**—This new variety is entirely distinct in habit of growth and foliage from any other. The plant grows stiff and upright; in form and color of fruit it resembles the Beauty. Very popular with market gardeners. Pkt. 5c, oz. 20c, ¼ lb. 60c, lb. \$2.00.

**Red Peach**—The most delicious and handsome tomato ever introduced, resembling a peach very closely. The color is of deep rose and orange amber, beautifully blended and covered with a delicate bloom of furze like a peach. For this novelty is worthy a place in every garden. Pkt. 5c, oz. 20c.

**Crimson Cushion**—This splendid new Tomato is more symmetrical in shape than the Ponderosa, and is much thicker through from stem to "blossom end;" in fact, so marked is this characteristic that it is frequently almost round. The color is brilliant scarlet crimson, untinted with purple, and ripens almost completely to the stem. The Crimson Cushion, like the Ponderosa, is almost seedless, requiring from 10 to 12 bushels of ripe fruit to produce one pound of seed. It is early for so large a Tomato and a prolific bearer. Flesh firm, meaty and of a superb quality. Pkt. 10c, oz. 40c, ¼ lb. \$1.25, lb. \$4.50.

## TURNIPS.

One ounce for 100 feet; 2 pounds to the acre.

## WHITE-FLESHED SORTS.

**Early Red, or Purple-Top Strap-Leaved**—Very early, roundish flat, purple at top of root, white below; flesh clear white, tender and sweet. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

**Early White Flat Dutch**—Pure white, flat, tender and sweet. Grown both spring and fall. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

**Large Red-Top Globe**—Extra large, early, crisp and tender. Invaluable for market gardeners. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

**Long White, or Cow Horn**—Grows rapidly; flesh sweet, pure white; grows partly above ground. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 50c.

**White Egg**—Egg-shaped, white, firm, mild and sweet. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 50c.

**Sweet German**—Best for early sowing; flesh white, hard and firm. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

## YELLOW-FLESHED.

**Amber Globe**—For general crop. Large; flesh firm, tender, excellent keeping; fine for table. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

**Golden Ball**—Quick growing; bright yellow, globe-shaped; flavor excellent. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.

**Yellow Aberdeen**—Hardy, productive, round, tender, sweet; a good keeper. Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 60c.

## RUTABAGA.

**Improved Purple-Top Yellow**—Flesh yellow, deep purple above and yellow underneath the ground; well flavored. The best of its class. Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 60c.

## VEGETABLE PLANTS

We grow the following plants, which we always have in season: Cabbage, Cauliflower, Celery, Lettuce, Eggplant, Parsley, Pepper, Tomato and other varieties. Kindly write us for prices, stating kinds and quantities wanted.

## VAIL'S GENERAL LIST OF RELIABLE FLOWER SEEDS.

With a view of offering only such Flower Seeds as are commonly used, we have severely pruned the lists. At the same time, we are prepared to supply any special varieties not herein mentioned. This list represents only such Flower Seeds that are generally used and the Seeds have been procured from the best European and American growers. They are perfectly fresh and are bound to please. Except where noted, they are sold at five cents per packet, or six packets for twenty-five cents. **a.**—Hardy annual. **b.**—Half-hardy annual. **t.**—Tender perennial. **a.**—Annual. **b.**—Biennial.

**Abronia umbellata**—h.a. Trailing plants with sweet scented lilac flowers.

**Acroclitum**, Mixed—h.a. A very pretty and delicate everlasting.

**Ageratum**—h.a. Very useful for cut flowers. **Mexican Blue.** Conspicuum. White. Mixed, all colors.

**Agrostema**—(Rose of heaven.) h.a. Pretty flowers; free bloomer. Mixed colors.

**Alyssum**—h.a. Small fragrant white flower. Good for an edging plant.

**Ammobium alatum**—h.a. Yellow flower. Fine for winter bouquets.

**Amaranthus**—h.a. Showy and handsome foliage plants. **Candatus.** (Love lies bleeding.) **Tricolor.** (Joseph's Coat.) **Salicifolius.** (Fountain plant.) Mixed, all colors.

**Antirrhinum**—(Snar Dragon.) h.p. **Majus.** Tail mixed; 2 feet. **Tom Thumb.** Dwarf mixed.

**Aquilegia**—(Columbine.) h.p. Beautiful, curious flowers of different colors. **Single,** all colors mixed. **Double,** mixed colors.

**Asperula Setosa**—h.a. A very pretty blue flower for bouquets.

**Asters**—h.a. The most popular fall plant. **Dwarf Bouquet,** 10c. **German Quilled,** 10c. **Paeony Perfection,** 10c. **Extra Choice,** mixed. 10c. **Common,** mixed, 5c.

**Balsamorhiza**—(Lady Slipper.) h.a. **Rose flowered.** Large double flowers, all colors. **The King.** Scarlet. **Camella flowered.** Very large double flowers; mixed colors, 10c.

**Bartonia aurea.** h.a. Showy yellow flowers and thistle like foliage.

**Browallia elata**—h.a. Large blue flowers with white throat.

**Cacalia**—(Tassel Flower.) h.h. Very pretty brush like flowers.

**Calendula**—(Marigold.) h.a. **Meteor.** Large flowers. Yellow and orange. **Pongel.** Double White. **Pure Gold.** Clear yellow. Mixed, all kinds.

**Callopis** h.a. **Golden Wave.** A very effective yellow flower. Mixed, all colors.

**Campanula**—(Canterbury Belle.) h.b. **Single** all colors. **Double Mixed,** all colors. **Speculum.** Venus' Looking Glass.

**Candytuft**—h.a. Invaluable for bouquets. **Rocket.** Large white. **Crimson.** Bright red. Mixed, all colors.

**Garnation**—h.p. Delicious fragrance, and large variety of colors. **Marguerite.** Flowering a few months from seed. **Double mixed,** finest varieties, 10c.

**Castor Bean**—Ornamental plants, growing from 6 to 12 feet high.

**Catchfly**—h.a. Mixed colors.

**Celastus**—(Cockscomb.) h.h. Very showy **Feathered,** plum-like flowers, 10c. **Dwarf Mixed,** choice varieties.

**Centaurea candidissima**—t.p. The most popular of the Dusty Miller plants, 10c.

**Chrysanthemum**—h.a. Showy, good for cut flowers. **Double Mixed,** yellow and white. **Single Mixed,** painted daisies.

**Glarkia.** Mix-d. h.a. Pretty and effective. Various colors.

**Cosmos**—A charming, late blooming plant.

**Large flower;** unequalled, for cutting. **Crimson,** 10c. **White,** 10c. **Mixed colors,** 5c.

**Daisy**—t.p. A charming plant. **Double White,** large flowers. **Longfellow,** large pink flowers, 10c.

**Digitalis**—(Foxglove.) h.p. Fine for shrub-beries. Showy flowers of various colors.

**Echscholtzia**—(California Poppy.) h.a. Very attractive, silvery foliage and large, showy yellow and orange flowers.

**Euphorbia, variegata**—h.a. Very ornamental for a foliage plant.

**Eutoca viscidia**—h.a. Handsome blue flowers of long duration.

**Four O'clock**—t.p. Old time favorites, of easiest culture.

**Galliardia**—h.a. Very large and brilliantly colored blooms. **Picta,** red and orange. **Grandiflora,** mixed, 10c.

**Gilia, tri-color**—h.a. Very pretty, easily grown annual.

**Glancium corniculatum**—Mexican Horn Poppy. Orange yellow flowers and silvery foliage.

**Globe Amaranth**—t.a. The well known **Bach's Buttons.** Good for winter bouquets. Mixed colors.

**Godetia**—h.a. A very attractive plant; profuse bloomer. **Choice Mixed,** all colors.

**Gypsophila elegans**—h.p. Delicate free flowering plants, suitable for vases, baskets and edgings.

**Hyolock**—h.p. We have a specialty choice strain of this great favorite. Mixed colors, 10c.

**Ice Plant**—t.a. A dwarf trailing plant of great beauty. Foliage glistening as if covered with frost.

**Larkspur**—h.a. One of the best known garden favorites. **Dwarf Rocket,** height, one foot. Mixed. **Emperor,** tall mixed.

**Linum**—This is much admired under the name of **carlet Flax.**

**Lobelia**—h.a. Very pretty profuse flowering plants, adapted for rockery, vases or baskets. **Emperor William,** rich blue, 10c. **White Gem,** pure white, 10c. Mixed colors, 10c.

**Love-in-a-Mist**—h.a. Showy blue flowers, nesting in a finely cut, hair-like foliage.

**Lupinus**—h.a. Easily grown plants with spikes of pea-shaped flowers.

**Mignonette**—h.a. **Golden Queen,** showy yellow flowers. **Sweet Scented,** height, 10 inches. **Parson's White,** white. **Machet,** for pot culture. **Mourning Bride**—Excellent for bouquets. Mixed, all colors.

**Nasturtium**—Dwarf, **Scarlet, Yellow, Rose, King Theodore,** very dark. **Empress of India,** deep crimson. Each, pkt. 5c, 5c, 20c. Mixed colors, 10c, 15c.

**Nemophila**—h.a. A neat dwarf plant of spreading habit of growth.

**Pansies**—h.p. We have a choice collection. **Imperial Mixed,** extra choice, 25c. **Very Choice Mixed,** a fine strain, 10c. **Fine Mixed,** very satisfactory, 5c. **Giant Trimardeau,** very large flowers, with blotches, 10c. **Faust,** black, 10c. **Victoria,** red, 10c. **Purple,** white edged, 10c.

**Petunia**—t.p. One of the earliest grown and most satisfactory plants. **Extra Large mixed,** 10c. **Colors of California,** very choice mixed, 20c. **Fine Mixed,** all colors, 5c. **Pure White,** 10c.

**Phlox Drummondii**—h.a. Very showy in masses. **Fine Mixed,** all colors, 5c. **Stellata,** star-shaped, 10c. **Grandiflora,** mixed colors, white eye, 10c.

**Pinks**—h.a. Very free flowering. **Climensis.** China Pink. **5c.** **Superialis,** Japan Pink, 10c. **Calcuttiana,** Fringed Pink. **5c.** **Snowball,** Double White, 10c.

**Poppies**—h.a. Remarkably brilliant and showy blooms. **White Swan,** Double White, 10c. **Paeony Flowered,** mixed colors, 5c. **Shirley,** a most beautiful strain, 5c. **Tulip,** like a dazzling red tulip, 10c.

**Portulaca**—h.a. Moss plant; a common favorite; especially adapted to rock-work and sunny situations. **Single,** mixed colors, 5c. **Double,** mixed colors, 10c.

**Rhodantea**—t.a. A charming everlasting plant. Mixed colors, 5c.

**Salpiglossis**—Showy fall bloomers. **Mixed colors.**

**Salvia**—(Sage.) h.a. A beautiful bedder; continuous succession of scarlet blooms.

**Schizanthus**—h.a. The pretty butterfly plant; very free flowering all season. Mixed colors.

**Stocks**—h.a. A most popular plant. Bears a profusion of fragrant blossoms. **Dwarf German,** mixed colors, 10c. **Snowflake,** pure white, 20c. **Large flowering mixed,** 5c.

**Sweet William**—h.p. Free flowering attractive plants. **Single,** mixed colors. **Double,** mixed colors.

**Verbenas**—One of the best plants obtainable for massing, producing a brilliant effect. **Common mixed,** 5c. **Italian,** striped, 15c. **Mammoth,** mixed colors, 10c.

**Zinnias**—The favorite fall flower, blooming from July until frost. **White Scarlet Orange, Canary,** each, all colors, mixed, 5c.

## VINES AND CREEPERS.

**Balloon Vine**—A rapid climber, with curious inflated seed pods.

**Black Ham Apple**—Useful as a climber and valuable for the medicinal virtue of its curious showy fruits.

**Cobaea**—Scandens, t.p. A rapid climber of easy culture. Large showy purple flowers.

**Cypress Vine**—t.a. A very popular vine, delicate and fern-like foliage and pretty small star shaped flowers. **Red, White Mixed.**

**Dolichos**—(Hyacinth Bean.) Clusters of showy flowers, followed by ornamental seed pods.

**Gourds**—Strong growers with ornamental fruits. **Nest Egg,** small, egg-shaped. **Hercules Club,** grows 3 feet long. **Dipper,** or Siphon. **Pear-shaped,** small. Mixed, all kinds.

**Maurandia**—t.p. A charming vine, delicate foliage and beautiful flowers.

**Morning Glory.** h.a. **Common,** mixed colors. **Japanese,** very beautiful, 10c.

**Nasturtium**—Tall mixed, 5c pkt., 10c oz.

**Thunbergia**—(Black-eyed Susan.) t.a. A pretty delicate vine with beautiful flowers throughout the season. **Single colors.**

**HOT-BED SASH**—Standard size, 3 x 6 feet. Price, \$2.35 each; in lots of ten or more at \$2.20 each, fully glazed. Cypress Hot-Bed Sash, unglazed and unpainted 70c each. In lots of ten or over we will deliver, freight paid, to any R. R. Station in Indiana.

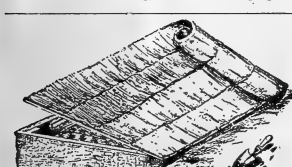
**PALMER'S FROST-PROOF HOT-BED MATS**—Made for winter covering of hot-beds, cold frames, plants and seeds of all kinds.

**INDESTRUCTIBLE, CHEAP AND WARM**—Will not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use five years. Cost less than old-fashioned straw mats and entirely take their place.

MADE IN FOLLOWING GRADES:

No. 1—**Burlap Cloth,** filled with combination wool and quilted, seams 3 inches apart and edges firmly bound. Size 40 x 76 inches, 75 cents each; 76 x 76 inches, \$1.00. Made any length, 76 inches wide, at 15 cents per running foot.

No. 2—**Duck Cloth** outside, filled and quilted same as No. 1. Size 40 x 76 inches, \$1.00 each; 76 x 76 inches, \$1.25. Made any length, 76 inches wide, at 20 cents per running foot.



# VAIL'S SUPERB SWEET PEAS.

The dissemination of this charming favorite has been so complete that we find ourselves at a loss to be able to say anything new in their behalf. We will, therefore, confine the subject to a few salient suggestions: Sow them as soon as the ground can be worked, and after they begin to bloom keep the flowers gathered. Note—Never plant your sweet peas two seasons in succession in the same place, as they deteriorate.

Our mixtures of Sweet Peas are made up by ourselves from named varieties; this insures a satisfactory variety of colors, which are vastly superior to stocks mixed by the growers.

## TWENTY-FOUR VARIETIES.

The sorts arranged in order of colors, commencing with White to Canary, Rose to Red Purple to Blue. All named sorts 10c. per ounce, 5c. per packet. Per pound, 50c. postpaid.

### WHITE CLASS.

**Mrs. Sankey**—Pure White. Similar to Queen of England, but larger flower.  
**Emily Henderson**—Pure white. Earliest to flower. Compact vine.

**Primrose**—Light yellow; a rare shade. Similar to Mrs. Eckford. Light seed.  
**Mrs. Eckford**—Light canary; nearly yellow. Similar to Primrose. Black seed.

### SCARLET CLASS.

**Lady Penzance**—Bright rose and pink. Very fine. Large flower.

**Her Majesty**—Rich, deep scarlet rose. Very fine. One of the best. Black seed.  
**Splendor**—Crimson and magenta. Choice. Similar to Duchess of Edinburgh. Black seed.

**Firefly**—Brightest of the scarlets. Fine solid color. Very similar to cardinal. Black seed.

### ROSY CLASS.

**Fairy Queen**—White pencilled with pink. Black seed.

**Lady Beaconsfield**—Yellowish white with rosy wings. Vigorous vine. Choice sort.  
**Lottie Eckford**—White shaded with pink and indigo.

**Mrs. Gladstone**—Pale rose and buff. Fine, large flower. Black seed.

**Blushing Beauty**—A heliotrope pink suffused with lilac. Fine sort; not excelled.

**Venus**—Rose, with a buff and decided sulphur tint. Excellent sort. Late to flower.  
**Gaity**—Magenta and white striped. Very desirable. Carnation striped.

**Queen of the Isle**—Carnation flowered. White and red stripe. Black seed.

**Apple Blossom**—Bright, rosy, pink and white. Very choice.

**Improved Painted Lady**—Rosy crimson and white. An excellent sort. Short vined.

## PURPLE CLASS.

**Princess of Wales**—Lavender mauve. Purple and carnation striped. Fine sort.

**Boreation**—Purple crimson, very dark velvety maroon. Distinct color.

### BLUE CLASS.

**Countess of Radnor**—Delicate lavender and reddish mauve. Very superior.  
**Emily Eckford**—Violet blue; best of that color. Large, bold flower.

**Dorothy Tennet**—Showy purple-blue; lighter color than the Emily Eckford.  
**Waverly**—Grand blue. Body royal blue. Blue crimson standard.

## MIXED CLASS.

**First Selection**—All the above sorts mixed, per pound 40c. oz. 10c. postpaid.

**Second Selection**—An excellent mixture of good sorts, per pound 35c. oz. 5c. postpaid.  
**Third Selection**—All dark blue and purple, per pound 30c. postpaid.

# SUMMER FLOWERING BULBS.

**Mixed Gladiolus**—Our mixtures are made up from choice varieties, and are all selected first-size bulbs. They are sure to give the most satisfactory results.

	Each.	Doz.	100.
Scarlet and Crimson, Shades mixed.....	\$0.05	\$0.30	\$2.00
White and Light.....	05	35	2.50
Yellows.....	05	40	3.00
Striped and Blotched.....	05	40	2.75
Pinks.....	05	35	2.50
Choice Mixed, all shades.....	05	30	2.00

**Caladium Esculentum**—(Elephant's Ear.) One of the most effective plants in cultivation for the flower border or for planting out upon the lawn. It will grow in any good garden soil and is of the easiest culture. To obtain the best results it should be planted where it will obtain plenty of water and an abundance of rich compost. Foliage light green. When full size it stands six feet high and bears immense leaves three to four feet long by 2½ feet wide.

Extra large bulbs, 12 to 14 inches in circumference, 25 cents each, \$2.50 per dozen. Postage, 5c. each extra.

First size bulbs, 10 to 12 inches in circumference, 15c. each, \$1.50 per doz. Postage, 10c. each extra.

Second-size bulbs, 8 to 10 inches in circumference, 10c. each, \$1.00 per doz. Postage, 5c. each extra.

Third-size bulbs, 6 to 8 inches in circumference, 8c. each, 75c. per dozen. Postage, 3c. each extra.

**Cinnamon Vine**—(Dioscorea Batatas.) A rapid growing climber, taking its name from the peculiar fragrance of the delicate white flowers. The leaves are heart-shaped, bright glossy green; growth is very rapid, reaching about 8 feet in height; quite hardy. Good roots, 5c. each, 50c. per dozen.

**Moderia or Mignonette Vine**—A rapid growing vine, covering a

large space in a short time. Fleshly, heart-shaped leaves of a light green, and numerous racemes of feathery flowers of delicious fragrance. A beautiful and popular vine. 5c. each, 40c. per dozen. By mail, 5c. extra.

**Liliums**—(Auratum.) Of all the lily tribe, this is undoubtedly one of the finest, whether we regard its size, its sweetness or its exquisite arrangement of color. Its large and graceful flowers are composed of six petals of a delicate ivory-white color, thickly studded with chocolate crimson spots and striped through the center a golden yellow. From 6 to 20 flowers are produced on a stem, and as the bulbs acquire age and strength the flowers increase in size and number. It is perfectly hardy and thrives best in a moderately dry, rich loam where the water does not lie in winter.

	Each.	Doz.	100.
Extra large, 11 to 13 inches in circumference, (postage 10c. each extra).....	\$0.25	\$2.50	\$12.00
First size, 9 to 11 inches in circumference, (postage, 6c. each extra).....	15	1.50	8.00
Second size, 7 to 9 inches in circumference, (postage, 5c. each extra).....	10	1.00	6.00

**Spiesom Album**—Large white flowers of great substance, with a greenish band running through the center of each petal; very fine. 15c. and 25c. each, \$1.50 and \$2.50 per dozen. Postage, 5c. each extra.

**Spiesom Rubrum**—White, heavily spotted with rich crimson spots. 10c. and 15c. each; \$1.00 and \$1.50 per dozen. Postage, 5c. each extra.

**Tuberoses**—One of the most delightfully fragrant and beautiful of the summer-flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March in the greenhouse or hotbed; and for a succession they can be planted at intervals as late as August. For flowering in the open border, plant about the 1st of May.

**Excelsior Double Pearl**—Extra large bulbs, 3 for 10c, 25c. per doz., \$1.50 per 100. If wanted by mail, add 12c. per dozen extra.

## 36 BULBS.

# SPECIAL OFFER. 1000 FLOWER SEEDS.

1 doz. Choice Mixed SWEET Peas; 30 varieties.  
1 oz. Dwarf Mixed NASTURTIUMS, which will bloom from July until the coming of frost.

1 oz. TALL NASTURTIUMS, the best climbers for old fences, rookeries, arbors and trellises.

1 doz. TUBEROSES; 1 doz. GLADIOLUS; choice mixed colors; no two alike.

¾ doz. CALADIUMS, or ELEPHANT EARS.

¾ doz. CANNA ROOTS.

All for 50 cents by express.

By mail, \$1.00, postpaid.

Give us a Trial Order. We Guarantee Satisfaction.

# EVER BLOOMING TEA AND HYBRID ROSES

- \***Agrippina**—Rich crimson; good bedder.
- \***Bon Silene**—Noted for the great size and beauty of its buds. Carmine-rose, shaded with salmon.
- The Bride**—Perfect globular, pointed buds of purest white.
- Catharine Mermet**—Of the very highest type; a grand parent variety; silvery pink, delicately shaded in center and at base amber and fawn.
- \***Champion of the World**—A cross between Magna Charta and Hermosa. Perfectly hardy, perpetual in bloom; perfectly double. Deep rosy pink.

**Clothilde Soupert**—Fine for out-door, and by many considered the very finest post rose; color a pearly white, with center of tinted salmon peach.

- \***Etoile De Lyon**—Deep yellow, double and very beautiful.
- \***Hermosa**—Bright rose, medium or small; hardy. It is continually in bloom; not full; very popular.

**Kaiserin Augusta Victoria**—Pure white with yellow center. Very free. A most promising variety, having the form of C. Mermet.

\***Mme. Hoste**—Yellow white, often canary yellow; base of petals often amber colored. One of the finest forcing varieties.

**Mme. Caroline Testout**—Flower large, double and globular; clear satiny rose, center brighter; very fragrant.

**Marion Dingee**—Deep carmine. Very fine bedder.

**Marie Guillot**—White, faintly tinged yellow. Large, full, and of splendid form. One of the most beautiful.

\***Mrs. DeGraw**—Resembles Appoline, but more prolific. Glossy pink, fragrant and continuous bloomer. Fine bedder; hardy south of Chicago.

**Meteor**—Velvety crimson. The brightest and best of Hybrid Teas, without a purple tinge.

**Papa Gontier**—Very bright rose or red, large, not double; flower extra good. A first-class forcing variety.

**Perle des Jardins**—Canary yellow; large or very large; full, well formed, stiff stems; very free. The standard forcing Tea, by which all others are compared.

**Pink Soupert**—This is a beautiful bright pink and contrasts finely with the other varieties. Blooms freely and produces double blossoms. A great beauty.

\***Princess Bonnie**—Crimson, petals streaked with white inside.

\***Safrano**—Saffron and apricot; yellow, large, semi-double; beautiful in bud; very free.

**Souv. De la Malmaison**—Flesh shaded fawn; large, very full, flat. A fine rose.

**Souvenir De President Carnot**—Long bud of Niphotos shape; flesh color shaded with rosy white at the edge of the petals.

**Yellow Soupert**—Color, a beautiful light yellow, shaded to white at edge of petals; plant dwarf, bushy and very free, flowering in clusters. It is a valuable sort.

Rosettes marked \* are hardy, or nearly so, with protection of leaves during winter. 10c each, 6 for 50c, or 1 doz. \$1.00.

## HYBRID PERPETUAL ROSES.

All the roses included under this class are thoroughly hardy; that is, they will live through winter in almost any part of the United States.

**Alfred Colomb**—Crimson, large, fragrant flowers.

**American Beauty**—Flowers very large and double; color, rich crimson; very fragrant.

**Anna De Diesbach**—Bright carmine; sweet.

**Baron De Bonetatin**—Blackish crimson with bright red shading.

**Caprice**—A striped red rose; ground color, soft pink marked with rose. **Coquette des Alps**—White; tinged bluish; fine.

**Fisher Holmes**—Rich velvety crimson, large and fragrant.

**Gen. Jacqueminot**—Bright crimson. A universal favorite.

**Gen. Washington**—Red, shaded with crimson; flower flat.

**John Hopper**—Bright rose; fine form. A highly prized variety.

**La Reine**—Clear light rose.

**Madam Chas. Wood**—Bright crimson with deeper shading.

**Magna Charta**—Dark pink; double and full; easy to grow.

**Madam Plantier**—Pure white; a profuse bloomer. This is a splendid cemetery rose; unlike the other varieties, it should never be pruned.

**Paul Neyron**—Deep rose color; largest of all, perfect in form. **Princo Camille De Rohan**—Velvety crimson, shading to dark maroon; very handsome.

**Ulrich Brunner**—Cherry red flowers; beautifully shaped buds.

**Victor Verdier**—Rose color, crimson center; large and full.

**PRICE**—Any of the above varieties, each 12c, 3 for 30c, 6 for 50c, 12 for \$1.00, postpaid.

Two-year-old field grown plants of any of the above named varieties at 25c each, or \$2.50 per dozen by freight or express.

## HARDY CLIMBING ROSES.

The plants of this class of Roses are used for covering trellises, walls, pillars, etc. They grow with great rapidity, are perfectly hardy, have beautiful foliage and produce flowers in large clusters.

## FOUR RAMBLER ROSES

In Four Different Colors.

CRIMSON, PINK, WHITE, YELLOW.

ALL FOUR FOR 50 CENTS, POSTPAID.

These Roses should be in every garden. There is nothing in their class which will in any way compare with them.

The RAMBLER roses will grow from 8 to 10 feet in one season. The size of their beautiful fragrant flower heads is remarkable. The foliage is thick and heavy. Flowers when cut last two weeks in water. May be grown as a pillar rose, trained on an arch, or over the surface of the ground.

## OTHER CLIMBING ROSES.

**Baltimore Belle**—Pale blush, shading to rose.

**Empress of China**—This is a new and a valuable perpetual blooming climber. It commences flowering the first of May, and except under some especially trying circumstances, such as long drought, it will bloom repeatedly until late in the fall. Flowers are small, delicate, fragrant and waxy. Bud is dark red, changing to a red or pink.

**Seven Sisters**—Color varies from white to crimson.

**Prairie Queen**—Bright pink.

**Russett's Cottage**—Velvety crimson.

**Tennessee Belle**—Rosy blush.

**Mary Washington**—Pure white.

All the above have double, sweet-scented flowers. They are all well tried and climate tested. Will live through the winter outdoors.

**PRICE**—Each 10c, or 1 each of above varieties—7 roses—for 50c.

## DOUBLE MEMORIAL ROSES.

The habit of these new roses is the same as the Rose Wichuriana, or Memorial Rose. The growth is creeping, and therefore can be used to cover ground, stems of trees, pillars, posts, trellises, or any other purpose desired, including pot culture.

## WICHURIANA HYBRIDS.

**Manda's Triumph**—White, fragrant flowers, double to the center.

**South Orange Perfection**—Rosy blush. Distinct from all others.

**Universal Favorite**—Pink. A fitting companion to Triumph.

**Pink Roamer**—Single; flowers are pink with white center. A strong and vigorous grower.

**PRICE**—Each 15c, or one each of the five varieties for 50c, postage paid.

Don't fail to include Seed Collection in your order. See first cover page.

**TREE ROSES.**

These are made by grafting Hybrid Perpetual Roses on hardy rose stalks. The plants are 4 to 5 feet high, having large tree-shaped heads, which, when in bloom, are very showy. We have them in different colors, such as white, pink, red and crimson. Please express your preference. They are so large they cannot be sent by mail. By express, each, 50c, 3 for \$1.40.

**HYBRID SWEET BRIARS.**

A unique class of Roses of great beauty. They are crosses between the well-known Sweet Briar and other roses. All possess the delightful fragrant foliage and strong, vigorous growth of the Briar. They are as hardy as oak trees. Their flowers are single, many shades of color, and are borne in great profusion. We offer in three colors, red, white and pink. Each, 15c, 3 for 40c, 6 for 75c.

**MOSS ROSES.**

Well known and highly valued for their large, sweet flowers, enveloped in mossy envelopes of charming beauty; absolutely hardy and of the easiest culture. They bloom very freely and are among the most beautiful of roses, succeeding on any good soil.

Blanche Moreau—Blossoms in large clusters; pure white, fragrant, mossed deep green.

Crimson Globe—Rich, bright crimson, full and double.

Princess Adelaide—Large, very double and full; lovely, bright, rosy pink; profuse and a strong grower.

Each, 15c, 3 for 40c, 6 for 75c.

**TENDER CLIMBING ROSE.**

Marochal Niel—A famous old rose that is as highly prized now as 25 years ago. As a greenhouse climber it has no superior, and in the South it covers the verandas with the greatest luxuriance. Flowers very large, long and pointed; dark golden yellow in color. Its merit as an outdoor rose has made it famous in the South, and we recommend it to our Southern friends. Each, 15c, 3 for 40c.

**CLEMATIS.**

There is no more ornamental class of plants than Clematis, and the rich show of bloom produced by the best varieties is far too magnificent to be fairly portrayed by mere words. The flowers are of large size, measuring 4 to 6 and sometimes 8 inches in diameter. The colors run from intense velvety purple through blue, lavender and white, and a new crimson variety (Madame Edward Andre) has lately been added to the list.

Duchess of Edinburgh—One of the best double whites, of vigorous habit, very free of bloom and deliciously fragrant.

Jackmanni—The flowers are large, intense rich, velvety violet-purple, and are produced in such masses as to form a cloud of bloom. Well known and very popular.

Madame Baron-Veillard—Of recent introduction and quite like its parent, the popular Jackmanni, in habit and make-up, except that its flowers are so lively, satiny-lavender pink. Entirely distinct from any other variety and charming in effect.

The three best large flowered Clematis. Price, 35c, by mail for one each of the above, or 15c each.

**AMPELOPSIS VEITCHI (Boston Ivy)**

A beautiful climbing plant. This is one of the finest climbers we have for covering walls, as it clings firmly to the smoothest surface, covering it smoothly with overlapping foliage, giving it the appearance of being shingled with green leaves. The color is a fresh deep green in summer, changing to the brightest shade of crimson and yellow in autumn. It is quite hardy and becomes more popular every year. Each, 6c, 3 for 15c, doz. 50c, postpaid.

**HONEYSUCKLES.**

For real home vines, to be near you, climbing over your windows and doorways, there is nothing prettier than sweet-scented Honeysuckles. The foliage is pretty, neat and clean, the flowers almost continuous and their fragrance delicious. Each, 12c, 3 for 30c; 12 by mail, postpaid, \$1.00.

**PANICULATA.**

One of the most valuable of all flowering vines, of exceedingly rapid growth, soon reaching a height of 15 or 20 feet and spreading out in all directions. Small, pure white flowers, borne in great masses of panicles or clusters on long stems, so profuse as to fairly cover the plant with a sheet of fleecy white. Its blooming period is in August and September, when most other vines have ceased, and it is then a sight to behold. It is as hardy as an oak. Each, 15c, 3 for 40c.

**WISTARIA.**

Chinese Purple—The Wistaria is particularly valuable for training over buildings, second floor verandas and wherever tall-growing climbers are wanted. It is a vigorous, rapid grower and entirely hardy. The flowers are borne in long pendulous clusters of lovely rich, violet purple; deliciously sweet and exceedingly handsome. One of the very best climbing vines for verandas, balconies, etc. Each, 15c, 3 for 40c.

**CARNATIONS.**

The popularity of the Carnation is on the increase very rapidly. Next to roses the Carnation is most sought after. The flower buyers have evidently learned to appreciate the many charms which the Carnation possesses. We offer a choice selection of the very best varieties. Each, 10c, 3 for 25c, postpaid; 6 for 50c, 10 for 75c.

Bon Ton—Bright, warm scarlet, large, deeply fringed, fragrant flower on a stem as stiff as a reed. Perfect calyx. Habit of the plant exceptionally strong, resembling Portia, but much heavier and more vigorous. The growth is so strong that it does not need staking. Comes into bloom with a fine crop for Christmas, when scarlet Carnations are so much in demand, and increases in quantity and quality as the season advances.

Daybreak—Delicate salmon pink; vigorous grower. Color, when at its best, very soft, clear and pleasing. Flower will not stand in full sun, as the color bleaches, and should be shaded when sun is strong. A very popular variety in all localities. Does well on nearly all soils. Should be grown cool to give best results.

Eldorado—Light, clear yellow, petals edged with a narrow band of light pink. A strong, vigorous grower, with fine healthy foliage. Stems of good length, supporting large, finely formed flowers. The color shows up well under artificial light and does not look white, as so many yellows do.

Evelina—A very fine white. Its strong points are its earliness, great freedom and continuity of bloom. It has slender stems, always stiff; is a pure white of large size and fine form. It has so many good qualities, united to its freedom, that we feel sure that it will rank very high with Carnation growers.

Firefly—Deep scarlet, early, continuous bloomer; large, well formed flower, 2½ inches in diameter; strong, vigorous foliage covered with heavy bloom. Introducer claims it to be disease proof.

Flora Hill—The largest white variety to date; wonderfully free in bloom, clean and healthy. Strong calyx; not subject to rust. Planted in enormous quantities all over the country and has made a fine record. Easily suited as to soil. Beware of too much water and don't overfeed.

Gold Nugget—Clear, deep yellow, slightly marked with red. In point of productiveness and constant blooming, a remarkable variety, strong grower, free, early and continual bloomer. Medium sized, high centered flower; does not burst. Stem long and stiff and bloom a first-class keeper. The best yellow we have ever grown and a prize-winner wherever shown. Reports from many growers confirm our opinion that it is the most profitable yellow Carnation to date.

Jubilee—Color intense scarlet; very large flower on long, slender, but stiff stems; strong, non-bursting calyx. This variety is doing well with a number of growers. Seems to do best when grown inside all summer, as then it is not so much affected with rust as when lifted, and also does best in a strong, stiff soil.

Triumph—A pure, rich pink, a little darker than Scott. Flowers often measure 3½ inches across; early and very free; strong, robust grower; very long stiff stems; never takes rust. The finest commercial bright pink to date.

Wm. Scott—Bright pink; one of the most productive large flowered pink Carnations; flower medium to large size, 2 to 3 inches, on long stems of good substance and stiffness. More generally grown than any other Carnation.

**PEONIES.**

We grow Peonies in large quantities and offer them in three colors, white, rose and crimson. They produce flowers resembling immense roses, some of them delightfully fragrant. They are perfectly hardy and improve year after year as the roots increase in age. Each, 25c, 5 for \$1.00, postpaid. Large clumps, each, 40c, 3 for \$1.00, not prepaid.

**MIXED FERNS.**

For such as are not familiar with the various varieties, we will be pleased to select the best sorts for general use at the following low prices: 3 inch pots, assorted varieties, 20c each or 3 for 50c, by express

# Small Fruit Plants

We are prepared to mail during the spring months any of the following Small Fruit Plants. The prices quoted include packing, postage and delivery to any post office in the United States.

Should larger quantities be desired for shipment by express, we will take pleasure in quoting very reasonable prices. Write us for an estimate, stating what you wish to purchase.

## STRAWBERRIES.

Those marked with (P.) are pistillate varieties, and must have a row of a perfectly formed sort planted every 10 or 12 feet to pollinize their blossoms.

**Brandywine**—Berries large, dark red, fine flavor. Mid-season. Doz. 30c.

**Bubach No. 5**—(P.) Large size, crimson, good flavor. Mid-season. Doz. 30c.

**Clyde**—Bright scarlet, fine flavor. Mid-season. Doz. 30c.

**Creasant**—(P.) Light scarlet, bears a long time. Early. Doz. 30c.

**Greenville**—(P.) Large and of uniform size; delicious flavor. Late. Doz. 30c.

**Jessie**—Large glossy crimson, excellent flavor. Early. Doz. 30c.

**Marshall**—Berries of very large size; 14 have been known to fill a quart box. Dark crimson. Mid-season. Doz. 40.

**Parker Earle**—Very productive, excellent flavor. Mid-season. Doz. 35c.

**Sharpless**—Large and very prolific, good flavor. Mid-season. Doz. 30.

**Timbrell**—(P.) Best of the late berries, rich flavor. Late. Doz. 60.

**Warfield**—(P.) Firm, large, productive, splendid quality. Mid-season. Doz. 30c.

**Wilson**—Second early. Dark red, slightly acid. Doz. 30c.

**Wm. Belt**—Enormous berries; bright red, conical, glossy. In quality all that can be desired. If you try but one, order this variety. Mid-season. Doz. 40c.

## GOOSEBERRIES.

Plant in good, rich soil in rows 5 feet apart by 3 feet in the row.

**Columbus**—Greenish yellow; new but well tested, and is good everywhere. Each 20c. Doz. \$1.50.

**Downing**—Pale green, fine quality. Each 15c.

**Industry**—Dark red, excellent flavor. Each 20c.

**Red Jacket**—Rich red, good flavor. Each 20c.

**Houghton**—Light green, an esteemed variety for cooking. Each 15c.

## CURRANTS.

The plants of this fruit should be set 4 feet apart in good, rich soil. Cultivate well or mulch heavily:

**Black Champion**—The leading black sort. Each 10c.

**Cherry**—The popular red currant. Each 10c.

**Fay's Prolific**—Large bright red fruit. Each 10c.

**Versailles**—Very large, red, of excellent quality. Each 10c.

**Victoria**—Large bright red. Each 10c.

**White Grape**—The best white. Large; of excellent flavor. Each 10c.

**North Star**—Extremely hardy, early, and an abundant

SPECIAL LOW PRICES On Any of the Above Varieties by Express or Freight

fruiter. Its quality is good, rich and juicy, and being borne on long stems makes it easy to pick; color red. Each 10c.

One each by mail, postpaid, 50c.

## RASPBERRIES.

Plant in rows 5 feet apart and 3 feet apart in the row.

**Columbian**—A grand berry for the table and canning; purple red; enormous berries. Doz. 60c.

**Cumberland**—A new black raspberry that makes large crops of enormous berries; the largest of all black-caps. Fruit ripens a little earlier than Gregg; is very black, firm, and may be shipped long distances. Doz. 75c.

**Cuthbert**—Berries large, dark crimson, and good flavor. Doz. 50c.

**Gregg**—Popular market sort, of fine flavor. Doz. 50c.

**Marlboro**—The largest of the early red raspberries, and best home sort. Doz. 50c.

**Palmer**—Very early and good fruit, productive, high quality. Doz. 50c.

**Shafter's Colossal**—Berries purplish color, rich flavor, very distinct. Doz. 50c.

**Souhegan, or Tyler**—Very early and wonderfully productive. Doz. 50c.

## BLACKBERRIES.

Set the plants out in rows 6 feet apart, and 4 feet apart in the row.

**New White Iceberg**—A novelty in fruits. The berries are as large, early and abundant as the black ones, and the quality is delicious. This is a genuine and really valuable introduction, and will be a novelty for years to come. Each 15c, 3 for 40c, 12 for \$1.50 postpaid.

**Dewberry, Lucetia**—(Creeping Blackberry.) Superb quality; a fine fruit. Doz. 75c.

**Erie**—Fine, large berries, canes very hardy; a grand variety. Doz. 75c.

**Early Harvest**—The earliest of all. Doz. 75c.

**Kittatinny**—Berries large and delicious in flavor. Doz. 75c.

**Rathbun**—We can offer this fine new fruit with utmost confidence. Though new, it has been tried in many sections and the verdict is satisfactory from every source. Fruit is enormous—45 berries have filled a quart box—is sweet, firm, with very little core. Plants grow strong and erect, drooping over and propagating themselves like a blackcap Raspberry. Each 15c, 3 for 40c, 12 for \$1.50, postpaid.

**The Logan Berry**—A hybrid of the raspberry and blackberry. The fruit is bright red, in form like large blackberries, combining the flavor of both raspberry and blackberry; pleasant and vinous, not only excellent for dessert, but good for canning, jellies, etc. Seeds few and small, strong grower, no thorns, but the canes have soft spines like the raspberry, with similar foliage. Each 10c, doz. \$1.00, by mail, postpaid.

IF A QUANTITY IS WANTED, WRITE US. We will SAVE you MONEY.

# SELECTED NURSERY STOCK.

**ESPECIAL** attention is called to the *very superior quality* of the nursery stock we supply. It is **first-class** in every respect, **smooth, straight, handsome**. Packing and delivery to railroad depot or express office in Chicago **free of charge**. For light shipments we advise express. Larger quantities or heavy packages generally go safely by freight. Purchasers pay transportation charges. State how we shall ship. We will notify you when we do so.

**TAKE NOTICE.** All on this page must be shipped you by **express or freight at expense of purchaser**, except where noted by mail; too large and heavy to mail. See page 13 for those varieties which we can deliver postpaid to your postoffice.

## APPLES.

5 to 7 feet high. Each 25c, doz. \$2.50.

Special rates made on large lots.

## SUMMER AND AUTUMN VARIETIES.

**Early Harvest**—Yellow. July.

**Red Astrachan**—Deep crimson.

**Duchess of Oldenburg**—Yellow streaked, red, juicy, rich, subacid.

**Alexander**—Large beautiful red apple.

**Keswick Codlin**—Pale yellow, fine for cooking and market. July.

**Snow**—Medium, brilliant crimson, mild and agreeable. October.

**Maiden's Blush**—Large, beautiful.

**Wealthy**—Large red, subacid.

**Yellow Transparent**—Earliest and best; white, tender, juicy, subacid.

## WINTER VARIETIES.

**Baldwin**—Bright red, juicy, crisp.

**Ben Davis**—Large, handsome, striped.

**Northern Spy**—Large, striped, mild.

**Jonathan**—Medium red, extra quality.

**Talman Sweet**—Medium, pale yellow.

**Wagner**—Deep red in the sun.

## CRAB APPLES.

Early bearers; hardy and ornamental. 5 to 7 feet, each 25c, doz. \$2.50.

**Hyslop**—Crimson, October.

**Transcendent**—Bright red, September.

**Whitney**—One of the largest, glossy carmine, juicy, excellent for cider.

**Yellow Siberian**—October.

**The Bismarck Apple**—This has been widely advertised and sold in recent years. Because it bears fruit when two years old, it has been largely grown in pots for decorative purposes. Fruit large, yellow; fine for cooking. It probably has more novelty than anything else to commend it. Young plants by mail, 25c. each, postpaid. We do not carry in standard (5 to 7 ft.) size.

## CHERRIES.

4 to 6 feet, each 40c, doz. \$4.00.

**Early Richmond**—Best early, dark red, subacid, juicy, June.

**Black Tartarian**—Sweet, black, large, juicy, rich. Makes a good shade tree.

## PEARS.

Those marked (\*) can be supplied in standard (5 to 7 ft.) or dwarf form (4 to 5 ft.) at the same price.

Unless noted, each 40c, doz. \$4.00.

**\*Bartlett**—Buttery, juicy, great bearer.

**\*Idaho**—Yellow with russet spots.

**Kieffer**—Russet yellow.

**\*Seckel**—Small, yellow, red cheek.

## PEACHES.

Healthy trees with splendid roots, general size, 4 to 6 feet, each 20c, doz. \$2.00.

We can supply all the leading varieties, early, medium, and late bearers.

## PLUMS.

Fine, healthy trees, 5 to 7 feet. Each 30c, doz. \$2.50.

**Abundance**—Japan. Lemon yellow, overspread with cherry; flesh orange-yellow, juicy and tender; abundant and annual bearer. August.

**Pottawattamie**—Native. Strong, vigorous grower, hardy and an immense bearer; fruit large, yellow ground, overspread with pink and white dots. August.

**Wild Goose**—Fruit medium; red, with blue bloom; flesh juicy and sweet. July.

**Shropshire Damson**—Medium; dark purple; very productive; best for preserving. October.

## QUINCE.

**Meech**—Large orange-colored fruit; cooking quality unsurpassed. Young trees, 4 to 5 ft. each 30c, 4 for \$1.00.

## GRAPES.

Two sizes are offered. Young plants by mail, postpaid, and very strong two-year-old stock grown without transplanting. All have plenty of good roots. Mail size, each 15c, 3 for 40c, postpaid. Express size 20c. each, \$2.00 per dozen, not prepaid.

**Agawam**—Red. Ripens early.

**Brighton**—Red. Fine for the table.

**Concord**—Black. Well known. Fall.

**Moore's Early**—Black. Two weeks earlier than Concord.

**Moore's Diamond**—White. Ripens before Moore's Early.

**Niagara**—Greenish white. September.

**Pocklington**—Golden yellow. A general favorite.

**Worden**—Black. Earlier than Concord.

## EVERGREENS.

They are grown either as single specimens or for making compact hedges around cemetery plots and other locations.

Nice plants averaging 1 1/2 to 2 feet.

**Arbor-Vitae, American**—Each 40c.

**Juniper, Irish**—For cemetery use, each 50c.

**Juniper Virginica**—(Red Cedar), each 50c.

**Pine, Scotch**—Each 50c.

**Pine, White**—Forms a tree. Each 50c.

**Spruce, Norway**—For hedges. Each 30c.

## SHADE TREES.

For street trees there is nothing better than the Rock or Sugar Maple; Ash is good. For lawns, Cut-leaved Weeping Birch is one of the most beautiful. Linden, Tulip, Maple, Ash, Elm, etc., should have a place in large grounds.

**Ash, White**—6 to 8 feet, each 50c, doz. \$5.00.

**Ash, European**—6 to 8 feet, each 50c, doz. \$5.00.

**Catalpa Speciosa**—6 to 8 feet, each 50c, doz. \$5.00.

**Catalpa, Tea's Japan**—6 to 8 feet, each 50c, doz. \$5.00.

**Elm, American**—6 to 8 feet, each 50c, doz. \$5.00.

**Horse-Chestnut**—4 to 5 feet, each 50c, doz. \$5.00.

**Linden, American**—(Basswood); 6 to 8 feet, each 60c, doz. \$6.00.

**Maple, Norway**—6 to 8 feet, each 50c, doz. \$5.00.

**Maple, Sugar or Rock**—6 to 8 feet, each 50c, doz. \$5.00.

**Maple, Silver**—6 to 8 feet, each 40c, doz. \$4.00.

**Maple, Ash Leaved**—6 to 8 feet, each 40c, dozen \$4.00.

**Tulip**—(Whitewood) 5 to 6 feet 45c, doz. \$4.50.

## WEeping TREES.

The drooping branches of Weeping Trees make this class desirable for cemetery decoration.

**Birch, Cut-Leaved**—6 to 8 feet, each 75c.

**Beech, American**—2 to 3 feet, each 50c.

**Elm, Camperdown**—Each 75c.

**Mountain Ash**—Each 50c.

**Mulberry, Tea's**—Two-year heads, each 60c.

**Willow, Wisconsin**—3 to 6 feet, each 30c.



# TREE, HEDGE AND FRUIT SEEDS.

Few investments made by farmers will return a larger profit in the course of a few years than the planting of forest trees on uncultivated land, or on land cultivated at a loss. The time is rapidly coming when land covered with our best forest trees will be of great value.

We quote the standard sorts only. Should you desire varieties not named in our list, write us and we will furnish at lowest possible prices. Prices given include postage paid by us.

**CULTURE.** Sow early in spring in well prepared beds, about two inches deep. When the seeds begin to germinate, cover the beds lightly with pine boughs, to shade the young plants from the sun. When the plants are all up the brush should be gradually removed, but replaced before winter sets in. Let plants remain in the beds for about two years; then transplant into rows two feet apart, leaving about twelve inches between each plant. Keep the ground clear and when plants are strong enough remove to their intended place.

**NOTE.** Owing to the many causes for failure in the germination of Tree Seed, we wish it distinctly understood that we cannot be held responsible for any loss or damage arising from any failure thereof. Orders filled on the above conditions only.

## FRUIT TREE SEEDS.

**Apples**—Apple seeds do not produce the same varieties, but generally give a hardy, though inferior sort, and upon these seedlings are grafted or budded the finer varieties. Oz. 5c, lb. 30c.

**Cherry, Mahaleb**—Used as stocks when dwarf trees are wanted. Culture same as the above. Oz. 10c, lb. 75c.

**Cherry, Mazzard**—This is the stock used for standard trees. Success is much more certain if the seed is planted in the fall, as it is very difficult to keep it in good condition through the winter. Oz. 10c, lb. 60c.

**Peach**—Plant three inches deep in nursery rows three feet apart, in the fall, or if delayed until spring crack the pits and plant the kernels only. . Bu. \$2.00.

**Pear**—Success will depend very largely upon having a *deep, rich, moist soil*, as this is essential to vigorous growth. Plant and cultivate like the apple, and bud when large enough. Oz. 25c, lb. \$2.00.

**Plum**—The directions given for planting apples will also apply to plums, except the pits should be planted further apart in the row. The varieties raised from seed will be hardy, vigorous stalks upon which to graft the choicer sorts. Oz. 10c, lb. 60c.

**Quince**—Quinces generally produce the same variety from seed, but occasionally vary. The general culture and requirements of soil are the same as for the pear, except that they are not budded. About 1,100 seeds per ounce. Oz. 20c, lb. \$2.00.

## SEEDS OF SMALL FRUITS.

It is a well-known fact that plants produced from seeds have greater vigor and are more prolific and harder than plants propagated by cuttings, and this is especially demonstrated in small fruit plants raised from seed.

Seeds of Small Fruit are very slow to germinate and should be sown early.

**Raspberry**—Large fruited sorts mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 20c.

**Currant**—Mixed. Pkt. 10c,  $\frac{1}{2}$  oz. 30c.

**Black Currant**—Pkt. 10c.

**Blackberry**—Mixed sorts. Pkt. 10c,  $\frac{1}{2}$  oz. 20.

**Gooseberry**—English large-fruited. Pkt. 10c,  $\frac{1}{2}$  oz. 30c.

**Strawberry**—Large fruited, mixed. Pkt. 10c.

## HEDGE SEEDS.

**Osage Orange**—(*Maclura aurantiaca*.) Sprout the seed before planting, putting into a vessel and covering with warm (not hot) water. Keep in a warm place and change the water once a day. Let the seed soak about five or six days, then pour off the water and cover the vessel with a cloth. Keep in a warm room and stir the seed occasionally. In a few days more the seed will begin to sprout and be ready for planting. Oz. 10c, lb. 50.

## EVERGREEN TREE SEEDS.

**American Arbor Vitæ**—(*Thuja Occidentalis*.) Seldom over thirty feet high. Grows well under cultivation, and makes one of the best hedges for a screen and wind break. It is best grown from seed. Oz. 20c, lb. \$2.00.

**Balsam Fir**—(*Abies balsamea*.) Oz. 15c, lb. \$2.00.

**Cedar, Red**—(*Juniper Virginia*.) Oz. 10c, lb. 50c.

**Hemlock**—(*Abies Canadensis*.) One of the most beautiful of our native evergreen trees. Of graceful habit, with graceful and delicate foliage. The bark is used very extensively for tanning leather. Needs a light, dry soil. Oz. 15c, lb. \$1.25.

**Scotch Pine**—(*Pinus sylvestris*.) Very hardy; grows surely and rapidly on nearly every variety of soil, forming a beautiful tree; invaluable for a wind break. Oz. 20c, lb. \$2.00.

**White, or Weymouth Pine**—(*Pinus strobus*.) The most majestic and valuable of all our native pines; thrives best in light sand with clay subsoil, and prefers plains and broad river valleys to higher lands. Oz. 25c, lb. \$3.00.

**Norway Spruce**—(*Picea excelsa*.) Well known as one of our most beautiful evergreen trees. It is hardy, of rapid growth, and forms a dense, close screen or hedge. Oz. 15c, lb. \$1.50.

**Colorado Blue Spruce**—(*Picea pungens*.) Makes beautiful specimen trees. Oz. 50c, lb. \$6.00.

## DECIDUOUS TREE SEEDS.

**White Ash**—(*Fraxinus Americana*.) Requires a moist, deep soil, on which it will grow very rapidly. It deserves special attention from those who wish trees for timber. Oz. 10c, lb. 60c.

**White Birch**—(*Betula alba*.) Valuable for ornamental planting. Cover seed very lightly. Oz. 10c, lb. 75c.

**Box Elder, or Ash-leaved Maple**—(*Acer negundo*.) Very rapid grower, seldom attaining more than 30 feet. Oz. 10c, lb. 60c.

**Soft Maple**—Ripens in May. Can give prices at that time only.

**Yellow Locust**—(*Robinio pseudo-acacia*.) This tree grows rapidly, and its wood makes first-class posts and railroad ties. Oz. 10c, lb. 50.

**Sugar Maple**—(*Acer saccharinum*.) One of our highly prized native trees. Oz. 10c, lb. \$1.00.

**Hardy Catalpa**—(*Catalpa speciosa*.) Scarcely a tree on our list can be so strongly recommended as this for planting on the treeless plains of the Western States. Oz. 10c, lb. 80c.

**Elm, American**—(*Ulmus Americana*.) A tall-growing, well-known native tree. Oz. 20c, lb. \$2.00.

**Honey Locust**—(*Gleditsia triacanthos*.) On account of its rapidity of growth and durability of the timber, we regard this as one of the most valuable of our native trees. It is valuable for hedges also. Scald seeds before sowing. Oz. 10c, lb. 50c.

See INSIDE COVER PAGE for BARGAINS in Seeds.

## MISCELLANEOUS GRASS AND FARM SEEDS.

In inviting your attention to the following list, we are pleased to state that no house is better able to supply strictly first-class stocks than we are. Indianaapolis is located in the center of one of the richest agricultural districts in the world, and our shipping facilities are unequalled. Hence, you not only get the very best seeds, but quickest and lowest freights, by purchasing your supplies from us. **FACT.** The most successful farmers are those who possess large areas in Grass and Clover. Stock growing is profitable. Hence seed more ground to grass. Raise more stock.

All Farm Seeds subject to market changes.

## CLOVER SEED.

Bags, extra for each 2½ bushels or less, 15c. 1 to 4 pounds are prepaid by mail. Larger quantities by freight or express.

**Common or Medium Red Clover**—This is the variety in general cultivation, and is so well known that description is not necessary. By mail, pkt. 10c, lb. 30c, 4 lbs. \$1.00. By freight or express, bu. \$6.50.

**Mammoth Clover**—(Pea Vine or English.) Like Common or Medium Clover, but of larger growth. By mail, pkt. 10c, lb. 30c, 4 lbs. \$1.00. By freight or express, bu. \$6.50.

**Alsike**—(Trifolium hybridum). This clover is deservedly in repute as one of the best permanent Clovers, and is well adapted to this country. Should be more generally grown. Sow in spring same as common clover. It will stand for years. Seed weighs 60 lbs. per bushel and is very small. On this account a bushel will sow from 12 to 15 acres, making it one of the cheapest varieties to seed with. By mail, pkt. 10c, lb. 35c, 4 lbs. \$1.25. By freight or express, bu. \$7.00.

**Lucerne or Alfalfa Clover**—Lucernes should not be sown on hard, compact soil, or with hard sub-soil, but on sandy, open or porous soil. Even where no other crop will grow, it will find its natural home, and yields enormously. The great value of Lucerne is in its enormous yield of sweet and nutritious forage. Sow about 15 lbs. per acre in March or April. It can be cut three times in a season, and will produce magnificent crops for 10 to 15 years without renewing. 60 lbs.

per bushel. By mail, pkt. 10c, lb. 30c, 4 lbs. \$1.00. By freight or express, bu. \$6.00.

**Crimson or Scarlet Clover**—(Trifolium incarnatum). An annual. It will make abundant pasture in the fall, winter and spring. By mail, pkt. 10c, lb. 30c, 4 lbs. \$1.00. By freight or express, American grown, \$6.00 per bu. Weight, 60 lbs. to bu. Sow 10 lbs. per acre.

**White Dutch Clover**—The best to sow with lawn grass and valuable in permanent pastures. Pkt. 10c, lb. 35c, 4 lbs. \$1.25; bu. 60 lbs. \$9.50.

## GRASS SEED.

Bags, extra for each 2½ bushels or less, 15c. each. 1 to 4 lbs. are prepaid by mail. Larger quantities by freight or express. Prices subject to change.

**Timothy**—This is decidedly the best grass for hay, making a large return of strong, rich hay. Sow 6 to 8 quarts, spring or fall, to acre. By mail, pkt. 10c, 1 lb. 25c, 4 lbs. 75c. By freight or express, bu. \$3.25.

**Kentucky Blue Grass**—This is known in some sections as "June Grass." It is the best pasture for our climate and soil, succeeding finely on hill lands and producing the most nourishing food for cattle. Sow in the spring or fall 1 to 2 bu. per acre. **Fancy Cleaned**, pkt. 10c, lb. 30c, 4 lbs. \$1.00, bu. \$1.25. **Extra Cleaned**, freight or express, 55c. per bu. Weight, 14 lbs. per bu.

**Orchard Grass**—This is one of the most widely known of all pasture grasses, coming earlier in the spring and remaining later in the autumn than any other. 14 lbs. per bu. Sow 1½

to 2 bushels to acre, either fall or spring. By mail, pkt. 10c, lb. 30c, 4 lbs. \$1.00. By freight or express, bu. \$1.40.

**Red Top**—A valuable grass for moist soils and low lands. It is a good, permanent grass. 14 lbs. to bushel. Sow 2 bu. to acre, fall or spring. By mail, pkt. 10c, lb. 30c, 4 lbs. \$1.00. **Fancy Seed**, by freight or express, bu. \$1.40.

## MILLET.

**Siberian Millet**—Is a more rapid grower than German Millet; of a liberal stooling habit with a great profusion of fine blades and makes an immense amount of fodder. Is rust proof and chintz bugs do not care for it. Six to eight pounds of seed is sufficient for an acre. Pkt. 5c, lb. 25c, 4 lbs. 75c. By freight or express, ¾ bu. 35c, bu. \$1.50.

**Golden or German**—The true large headed variety. The best variety and largely grown wherever its value is known. Sow broadcast, 1 bushel to the acre, from May 1st to August 1st. Pkt. 5c, lb. 25c, 4 lbs. 75c. By freight or express, ¾ bu. 35c, bu. \$1.50.

**Common Millet**—Smaller growth than German. Makes fine hay. Price 10c. per bu. less than German.

**Hungarian Millet**—Abundant foliage and slender head; yields well. Price same as German Millet.

**Quick Growing Lawn Grass**—Fine lawns, grass patches or grass borders add to the beauty of a place as much as flowers. We have prepared a grass mixture which will give a good sward the first year. Sow early in the fall or spring. Lb. 30c, 4 lbs. \$1.00, postpaid. By express, pack 75c, bu. \$2.50.

## BROMUS INERMIS.

Agriculture, Washington, and by farmers. Bromus inermis is a sure grower, a sure cropper, as it resists drought and winter. Once started, lasts for years. Produces seed. Sow in the spring, 20 lbs. per acre. 14 lbs. per bu. The Department of Agriculture, which has been experimenting with this grass at Garden City, Kas., says: "We have grown Bromus inermis successfully, and we think it is the coming grass for the arid regions of the West. It is green from the middle of March to about November." Price by mail, 1 lb. 25c, 4 lbs. 75c. By freight or express, 1 bu. \$2.00, 5 bus. \$9.00.

**A New Grass.** A wonderful grass for dry soils, dry climates and semi-arid regions, also surpasses timothy, orchard and blue grass in sections where they find their natural homes. Has been thoroughly tested in every State in the Union, and highly endorsed by Agricultural Stations, by the Department of Agriculture, and by the Department of the Interior. It is as nutritious as timothy and orchard grass. Produces seed. Sow in the spring, 20 lbs. per acre. 14 lbs. per bu. The Department of Agriculture, which has been experimenting with this grass at Garden City, Kas., says: "We have grown Bromus inermis successfully, and we think it is the coming grass for the arid regions of the West. It is green from the middle of March to about November." Price by mail, 1 lb. 25c, 4 lbs. 75c. By freight or express, 1 bu. \$2.00, 5 bus. \$9.00.

## CANE SEED FOR SYRUP.

Sow 5 or 6 pounds to the acre to grow for syrup.

**Early Amber Cane**—This variety is the earliest and makes the finest quality of amber syrup and good sugar. Per lb. 10c, peck 60c, bu. (50 lbs.) \$2.00.

**Early Orange Cane**—A variety well adapted for the South. It is from eight to ten days later than the early amber; produces a syrup of excellent quality. Per lb. 10c, peck 60c, bu. (50 lbs.) \$2.00.

## DWARF ESSEX RAPE.

This Rape may be sown broadcast at the rate of eight lbs. per acre and harrowed in. Under favorable conditions it is ready for pasturing sheep or cattle within six weeks from the time of sowing, and on an average one acre will carry twelve to fifteen sheep six weeks to two months. In the Northern States it should be sown from May to September for fall pasturing, but as it thrives best in cool weather, it should not be sown in the Southern States until September or October for winter pasture. Per lb. 15c, 10 lbs. \$1.00, 100 lbs. \$8.00.

## SOJA OR JAPAN BEAN.

(American Coffee Berry.)

The Soja Bean (*Soja Bispida*) is a Japanese plant. It has an upright, stiff, bushy form, under favorable circumstances attaining a height of two feet. One plant will produce a large number of pods and leaves. Pods are well filled with small berries. The plant sends a vigorous root down into the soil. The leaves, stems and pods are, as a rule, very hairy. The seed should be planted about 30 inches apart in rows, with a bean every 6 inches in the row. The seed should not be planted until the ground is well warmed—about May. After the beans are ripe enough the plants should be mowed off or pulled up and dried in the field in small piles or stacks, after which they may be taken to the barn and threshed. Plant one-half bushel to the acre. Lb. 10c, peck 90c, bu. (60 lbs.) \$2.50.

**Seed Oats**—Market price.

**Seed Spring Wheat**—Market price.

**Seed Barley**—Market price.

**Seed Rye**—Market price.

Prices given upon application.

## SEED CORN.

**Riley's Favorite—90 Day—Yellow**—Medium sized, extra early Yellow Dent variety, with deep, rich, oily grain, and small red cob. Will mature in from eighty-five to one hundred days. Per peck 60c, bu. \$2.00.

**The Leaming—Yellow—A Yellow Dent variety**; very small red cob, with a deep, long grain, of a rich golden color, matures a crop in 90 days, and will, if planted by the 1st of June, under ordinary culture, grow, ripen and be fit to husk and crib by September 1st. Per peck 50c, bu. \$2.00.

**Iowa Gold Mine—Yellow**—The best and most profitable yellow variety grown. It is early, ripening only a few days later than Pride of the North, ears are of good size and symmetrical; color a bright golden yellow, grain is very deep; cob small, and therefore dries out very quickly as soon as ripe. Seventy pounds of ear corn makes sixty to sixty-two pounds of shelled corn. Per peck 50c, bu. \$2.00.

**Dungen's White Prolific**—Best White Corn grown. Peck 50c, bu. \$2.00.

Owing to sharp fluctuation of market on all above named seeds, we suggest that our customers write us for market prices before ordering in quantities of 5 bushels or more.

## SOUTHERN COW PEAS.

A field of Cow Peas has been designated "The Poor Man's Bank" and a similar truth may be added—it will increase the rich man's bank account.

The Southern Cow Pea (in reality a bean) has been cultivated in the South for many years, but only in recent years has it been demonstrated that most all varieties are adapted to cultivation throughout nearly the entire United States. They now promise to become one of our most valuable farm products.

Cow Peas afford excellent midsummer pasturage, but the best way for using green is to cut and feed to stock. For hog pasture, turn in just as the peas are ripening. Hogs will then eat both vines and peas and will put on fat rapidly. For hay, cut when the last pods are formed, wilt, rake into winrows, leave one or two days and then put into small cocks a week or ten days until thoroughly cured.

Do not forget the Southern Cow Pea belongs to the bean family and must not be planted until the ground is warm, in this latitude about May 10; from then to the last of June or even later if wanted for green feed. Plow the ground deep and harrow well; sow broadcast  $1\frac{1}{2}$  bushels per acre or drill 16 to 18 inches apart  $1\frac{1}{2}$  bushels per acre. They will grow well on almost all soils not too wet.

Wonderful, Black Eye and Brown Eye produce largest crop of vines. Clay and Black best for combination crop of vines and peas. Whippoorwill best for peas; recommended for hogging down.

Owing to fluctuations in prices, write us for prices before sending orders.

## Pencillaria Zeaoides.

A NEW FODDER PLANT OF UNTOLD VALUE

To the FARMER, for its immense growth of hay.  
To the DAIRYMAN, for its excellent fodder.  
To the STOCKMAN, for its quick-growing foliage.  
To the POULTRYMAN, for the seed.

### A RARE OPPORTUNITY.

As a rapid growing hay plant it is unequaled. It throws out from one plant numerous suckers, each one forming a new stalk, and if cut as soon as it reaches the height of two or three feet it can be mowed from four to seven times, according to the latitude, and yields several tons of dry hay per acre at each cutting.

If allowed to grow six or seven feet high and cut when the flower heads begin to develop, it will yield the heaviest fodder crop per acre of any plant now under cultivation.

For feeding it is equal to any fodder and is relished by all kinds of stock, either in the green or dry state.

The seed should be sown very thinly in drills 18 inches apart; one ounce sown this way will be sufficient for 3,000 feet of drill. It should be sown only when the ground is warm and requires but one cultivation, as it very soon forms a growth so dense that nothing else can grow there.

One oz. pkt. 25c, 1 lb. \$1.50. By mail, postpaid.

## SEED POTATOES.

We are also extensive dealers in all varieties of Seed Potatoes. Carefully grown for seed stock only. We quote as follows:

	Pk.	Bu.	Bbl.
Early Six Weeks Market.....	\$0.40	\$2.00	\$5.00
Early Rose .....	.35	1.25	3.75
Early Ohio .....	.40	1.50	4.00
Beauty of Hebron.....	.35	1.25	3.75
Rural New Yorker.....	.35	1.50	3.75
Green Mountain.....	.35	1.75	4.50
White Mountain.....	.35	1.75	4.50



### VAIL'S EARLY PERFECTION.

This new variety has been on the market for the past two years and thoroughly tested. It is two weeks earlier than the Early Ohio. It resembles Bliss Triumph in form. An excellent cooker and yielder and for early market use it has no equal. One of the earliest potatoes in existence. By mail, lb. 40c, 4 lbs. \$1.00. By freight or express,  $\frac{1}{4}$  bu. 75c,  $\frac{1}{2}$  bu. \$1.00, bu. \$2.00, bbl. \$5.00,



### RED COB ENSILAGE CORN.

Red Cob Ensilage Corn is a pure white corn grown on a red cob, giving it an extremely showy appearance. You pay for no cobs or dirt when you purchase Red Cob Ensilage, as all is carefully re-cleaned. Every bag of Red Cob Ensilage is tested prior to shipment. Red Cob Ensilage Corn is packed in bags holding  $\frac{3}{4}$  bushels, net, each, which are furnished free. Red Cob Ensilage Corn is sweet, tender and juicy; has short joints, abundance of leaves and grows to a great height. Red Cob Ensilage Corn is adapted to every section of the country and gives satisfaction wherever used. Is the best for North, South, East and West. We suggest that you place your orders with us at as early a date as possible. Price, pkt. 10c, qt. 40c, 4 qts. \$1.00, postpaid.  $\frac{1}{4}$  bu. 35c, bu. \$1.50, 2 bu. \$2.50. Prices subject to change.

## LITTLE GIANT SEEDER No. 2.



Each, \$1.50.

This machine, when first invented, sold for \$15.00.

This Seeder has a Steel Bow, swinging movement, and Malleable Cast Iron Brace, being the only Seeder made having an Iron Frame, Force Feed and Pressed Distributing Wheel, Hand Hold on the side; and no Feed Plate to carry.

Sow from 40 to 60 acres per day at a common walking gait. See it! Try it! Examine it! And you will be convinced of its merits. No farmer who has used one would do without one for five times its cost.

**Strongest! Prettiest! Lightest! Easiest Running! No Equal on the Market.**

Little Giant Seeder  
No. 3.

\$2.00; Three for \$5.00.

This is the best and cheapest Crank Seeder made in the quality of work done and durability. Don't pay \$5.00 for a Seeder when you can get its better for less money.

The gearing is rigid, being in an iron frame and the cog wheels lathe-centred. It will not get out of order nor be affected by dampness of the weather.

The agitator or force feed is such that the Little Giant does not require seed to be cleaned, and will sow orchard or blue grass.

It will distribute all kinds of Fertilizer, Land Plaster and Ashes, Flax and Clover Seed 36 feet to the round; Wheat, 50 feet to the round; Buckwheat, 46 feet to the round; Barley, 40 feet to the round; Timothy Seed, 27 feet to the round; Oats, 36 feet to the round.

## NEW NATIONAL BROADCAST SEEDER.

Combines Every Good Feature of Every Other Broadcast Seed Sower and is Distinct and Superior in Many Respects. The Cheapest, Simplest, Strongest, Most Durable and Most Accurate and Handsome Seeder Made.

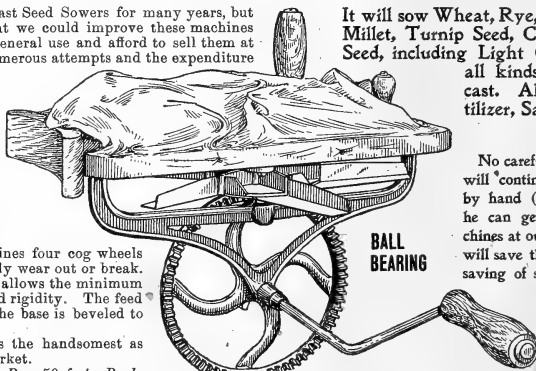
We have manufactured Broadcast Seed Sowers for many years, but only recently it occurred to us that we could improve these machines very materially over the style in general use and afford to sell them at a greatly reduced price. After numerous attempts and the expenditure of much money, we believe we have produced a machine as nearly perfect as it is possible to make, with the fewest wearing parts, insuring long life, and so accurately made that it runs almost without an effort. Ball bearings are used wherever possible.

In the NEW NATIONAL we have one cog wheel seven inches in diameter and a small pinion. In the old style machines four cog wheels were employed, and they frequently wear out or break. The frame is so constructed that it allows the minimum of weight with greatest strength and rigidity. The feed is from the center of the base and the base is beveled to run the seed out very clean.

The NEW NATIONAL. It is the handsomest as well as the best machine on the market.

It will sow at a round—Wheat or Rye, 50 feet; Buckwheat, 45 feet; Flax Seed, Clover or Millet, 36 feet; Grass Seed, 30 to 36 feet; other seeds, etc., according to their nature and condition. The old style Seeders don't do this. Full directions with each machine. Warranted to give entire satisfaction.

Price, each \$1.50, ½ dozen \$5.40, per dozen \$10.80. For 50c extra we will deliver single machines by mail or express.



It will sow Wheat, Rye, Oats, Rice, Flax, Millet, Turnip Seed, Clover Seed, Grass Seed, including Light Grasses; in fact, all kinds of Seed Broadcast. Also Plaster, Fertilizer, Salt, Ashes, Etc.

No careful, economical farmer will continue to sow his seed by hand (the old way) when he can get one of these machines at our low price. They will save their cost daily in the saving of seed, to say nothing about saving of time and more even distribution, which will have great effect on the crop.

By the superior construction of the hopper and attachment of the sack, it sows out clean. The old style Seeders don't do this. Full directions with each machine. Warranted to give entire satisfaction.

\*\*\*\*\* **RIPPLEY'S** \*\*\*\*\*

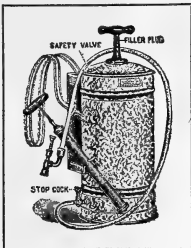
# Reliable Compressed Air Sprayer

## AND WHITEWASHING MACHINE.

**Guaranteed to be the Best 5-Cal. Compressed Air Sprayer on the Market, or Money Refunded**

A FEW OF THE MANY THINGS THE SPRAYER IS ADAPTED FOR:

1. For rapid work, throwing a continuous spray without any labor.
2. For killing potato bugs and insects of every nature.
3. For spraying fruit trees, almost any height.
4. For spraying flowers and vineyards in any form, or at any distance.
5. For whitewashing the walls of poultry houses and killing insects.
6. For keeping flies from stock during summer by using Rippley's Reliable Fly Remover.
7. For sprinkling floors evenly, without oil or water.



8. For sprinkling tobacco.
9. For disinfecting purposes.
10. As a fire extinguisher it is unexcelled.
11. Also, a blow machine for dental purposes.
12. For washing livery rigs, wagons, etc.
13. For applying insecticides of every nature to all plant life.
14. For applying disinfectants in the form of the finest mist in stables, dairy barns, army camps, vaults, etc.
15. For spraying corn in the shock in dry weather, so it may be husked without waste of fodder. Every farmer needs one for this purpose only.

**DIRECTIONS**—Fill reservoir from two-thirds to three-fourths full; pump in plenty of air; open stop cock, and air will force the solution out. Keep the pump and valve well oiled.

**3-gallon Sprayer**, weight 13 lbs., crated 15 lbs.; height, 20 in. over all. Price, fitted with Vermorel or Rippley's Interchangeable Nozzle, galvanized iron, \$5.00; heavy copper, \$7.00.

**5-gallon Sprayer**, weight 15 lbs., crated 17 lbs.; height, 23 in. over all. Price, fitted with Vermorel or Rippley's Interchangeable Nozzle, galvanized iron, \$5.50; heavy copper, \$8.00.

**Extra Hose**, per foot, 8c. **Rippley's Spray Nozzle**, 50c; by mail, postage paid, 60c. **Single Vermorel Nozzle**, 75c; **Double Vermorel Nozzle**, \$1.50. **Bamboo Rod**, **Copper Tube** through center, to elevate spray in high trees, suitable to attach to 5-Gallon Sprayers, 4 ft. 75c, 6 ft. \$1.00, 8 ft. \$1.25, 10 ft. \$1.50.

**SHORTAGE**—Look inside of air chamber before you complain about parts being short. Enclose two-cent stamp for reply to inquiries.

## FERTILIZERS.

**BONE MEAL**—Guaranteed pure bone. It is ground fine and is an excellent top dressing for lawns, grass lands, farm and field crops; also for mixing with potting soil. 5 lbs. 25c, 10 lbs. 40c, 25 lbs. 70c, 50 lbs. \$1.25, 100 lbs. \$2.00, bag of 200 lbs. \$3.50.

**CRUSHED BONE**—Coarse ground. Used around fruit trees, grape vine borders, and in the poultry yard. 50 lbs. \$1.75, 100 lbs. \$3.00.

**BONE AND BLOOD**—Just the thing where a high nitrogenous fertilizer is required. Its effects are prolonged and lasting. Recommended for Cabbage, Cauliflower, Corn, Grain, in fact all kinds of vegetation. For seed beds and garden plots apply broadcast at the rate of one or two tons per acre. When used in rows or in hills, one to two hundred pounds per acre will be sufficient. 100 lbs. \$1.50, per ton \$26.00.

**FARMERS' FAVORITE BRAND**—Benefits all field crops, promotes maturity, and affords nourishment the entire growing season. It is used with the most beneficial results by market gardeners on Cabbage, Cauliflower, Celery, Peas, Radish, Spinach, etc. Use 200 to 300 lbs. per acre. 100 lbs. \$2.00, 200 lbs. \$3.00.

**GARDEN VEGETABLE FERTILIZER**—The effect of this fertilizer when applied to vegetables brings them into marketable condition from 10 to 14 days earlier, and increases the production from one-third to one-half. It is clean, odorless, easy to handle, and reasonable in price. An excellent stimulant for Potatoes. 50 lbs. \$1.50, 100 lbs. \$2.25, 200 lbs. \$4.00.

**LAND PLASTER**—Excellent for composting, or mixing with guano. Bbl. (about 350 lbs.) \$2.25, 5 bbls. for \$10.00. Write for special price on large quantity.

**LAWN FERTILIZER**—Fine, dry, non-odorless. It may be applied any time during spring, summer, or autumn, as the grass needs nourishment. 10 lbs. 35c, 25 lbs. 70c, 50 lbs. \$1.25, 100 lbs. \$2.25.

**NITRATE OF SODA**—A quick acting fertilizer for all crops, hastening maturity greatly. Should be applied broadcast and evenly. 10 lbs. 60c, 25 lbs. \$1.25, 50 lbs. \$2.00, 100 lbs. \$3.50.

**BOWKER'S PLANT FOOD**—A preparation especially designed for pot plants. Results obtained from its use are rapid and vigorous growth, and an abundance of flowers. Small pkg. 15c, by mail postpaid 20c. Full size box, 25c, by mail 40c, postpaid.

## INSECT DESTROYERS.

Liquid Insecticides are not admissible to the mails.

Powders and soaps can be sent by mail, if 15c per lb. be added to prices herein given.

**FIRE TREE OIL**—Kills male bug, scale, black and green aphides, red spider, etc. Directions on bottle. Pint 75c, qt. \$1.25.

**HELEBORE, POWDERED WHITE**—Destroys slugs, currant-worms, caterpillars, etc. Lb. 25c, 5 lbs. for \$1.00, not prepaid.

**INSECT POWDER, DELMATIAN OR PERSIAN**—Destroys ants, fleas, and all noxious insects.  $\frac{1}{4}$  lb. 25c,  $\frac{1}{2}$  lb. 40c, lb. 75c, not prepaid.

**PARIS GREEN**—A poisonous powder almost indispensable on the farm and in the garden. It prevents the ravages of potato and other bugs, slugs, caterpillars, worms, etc. Used either dry or in solution. 1 lb. 25c, 2 lb. can 45c, 14 lb. bucket \$3.00, 28 lb. bucket \$5.50.

**SLUG-SHOT**—One of the cheapest and most popular insecticides. It kills potato bugs, currant, gooseberry and cabbage worms, melon, squash and cucumber bugs—in fact, every pest known to the gardener. Contains nothing in the least injurious. 5 lb. pkg. 30c, 10 lb. pkg. 50c, bbl. (25-260 lbs.) 4c lb.

**TOBACCO DUST**—Cheaper than snuff. A sure remedy for green fly. 1 lb. 10c (by mail 25c), 5 lbs. 25c, 100 lbs. \$3.00, not prepaid.

**TOBACCO STEMS**—For fumigating greenhouses, etc. Good to mulch Rose and Lettuce beds. 10 lbs. 50c, bbl. \$1.00.

**WHOLE OIL SOAP**—Pure, fresh. Kills insects and their eggs; good wash for fruit trees. 2 lbs. 25c, 5 lbs. 50c, not prepaid. Postage required, 15c per lb.

## REMEDIES FOR MILDEW, ETC.

**BORDEAUX MIXTURE**—For black rot, mildew of grapes, potato rot, leaf blight of cherry, pear and other trees, etc. Supplied dry; 1 lb. 30c, not prepaid.

**GRAPE DUST**—Preparation for destroying mildew, mold, or rust either in greenhouse or open air. 5 lb. pkg. 35c, not prepaid.

**POWDERED SULPHUR**—For destruction of mildew on roses, etc. Lb. 10c, 10 lbs. 60c, 25 lbs. \$1.25, 50 lbs. \$2.00, not prepaid.

# Fine Bird Seeds, and Seeds for Poultry and Pigeons.

Bird fanciers know that to keep canaries and other small song birds in good health and song it is most important that they should be fed with the seed adapted to their requirements. The seeds offered below are the cleanest and best quality that can be obtained. If you wish to keep your birds in good, healthy condition, do not feed them on cheap or old seeds.

**Vail Seed Co.'s Fine Mixed Bird Seed.** A combination of the best and highest quality seeds in proper proportions. Atteflesh with each pound. Lb. 10c, 3 lbs. 25c, 10 lbs. 60c.

**Canary.** (Receleand Sicily.) Lb. 10c, 3 lbs. 25c, 10 lbs. 60c.

**Hemp.** (Imported Russian.) For parrots, pigeons, etc. Lb. 10c, 3 lbs. 25c, 10 lbs. 60c.

**Rape.** (Imported) Not the common article usually sold. Lb. 10c, 10 lbs. 75c.

**Sunflower.** (Mammoth Russian.) For parrots, pigeons, etc. Lb. 10c, 3 lbs. 25c, 10 lbs. 75c.

**Canada Peas.** For pigeons. Peck 40c, bushel \$1.25

**Millet.** For young chicks and song birds. Lb. 5c, 6 lbs. 25c

**Buckwheat.** For poultry, pigeons, etc. Peck 35c, bushel \$1.20.

**Vail Seed Co.'s Lawn and Garden Fertilizer.** A complete and concentrated manure for making and sustaining fine lawns. It will improve the grass wonderfully, giving it a beautiful green color. For new lawns, apply broadcast five pounds to 300 square feet (12 x 25), or 600 pounds per acre, working in and mixing in the soil. As a top dressing in the winter or early spring, apply at the rate of five pounds for 500 square feet, or 400 pounds per acre. The best time to apply as a top dressing is before a rain or snow. Price, 5 lbs. 30c, 10 lbs. 50c, 25 lbs. \$1.00, 50 lbs. \$1.75, 100 lbs. \$3.00, 200 lbs. \$5.00, ton \$45.00.

## SUNDRY GARDEN REQUISITES.

**Painted Pot Labels.** 3 1/4 inch, per 1,000, 65c; 4 inch, per 1,000, 70c; 4 1/2 inch, per 1,000, 75c; 5 inch, per 1,000, 85c; 6 inch, per 1,000, \$1.00; 8 inch, per 100, 50c; per 1,000, \$3.00; 12 inch, per 100, 60c; per 1,000, \$4.50. Samples on application.

**Plant Stakes.** Cane, 4 to 6 feet long; can be cut to any desired length. Per 100 40c, per 1,000 \$2.00.

**Grazing Points.** Van Reyper's. Easily applied; no rights and lefts. Per 1,000 75c, 5,000 and over at 60c per 1,000.

**Budding Knives.** Best quality English steel, Black Buffalo and Ivory Handles. 85c each.

**Pruning Knives.** Fine quality, Iron or Wood Handles. 50c each.

**Pruning Shears.** California. 9 inch 60c, 10 inch 75c each.

**Pruning Shear, Flower Gatherer and Grape Picker.** A combination shear and holder, working with one movement of the hand. In cutting flowers and grapes the hand does not come in contact with them. Works with greatest ease. Price, 75c.

**Plant Tubs.** Made of cypress; painted green; iron feet. Cheap and durable.

No.	Height.	Diam.	Each.	No.	Height.	Diam.	Each.
1.	11 1/2 in.	x 13 1/2 in.	\$0.75	2.	14 in.	x 14 1/2 in.	\$1.00
4.	18 in.	x 20 in.	2.00	5.	21 in.	x 24 in.	2.65
3.	15 in.	x 16 in.	1.35				

Ten per cent discount in one-half dozen lots.

**Tree Pruners.** Waters' Improved. Four foot 75c, 6 foot 85c, 8 foot \$1.00, 10 foot \$1.15, 12 foot \$1.25.

**Raffia.** For tying plants, vines, etc. Per lb. 20c, 10 lbs. and over at 15c per lb.

**Fumigators.** "Eureka." Made of galvanized iron; a damper regulates the draft. inches high, \$2.00.

**Twine.** For tying vegetables, etc., in bunches for market. 3-ply 5 lb. bags, \$1.00.



Plant Tub.

No. 1, 12 inches high, \$1.50; No. 2, 16

# FLY-PROOF, ANTI-RUST WHEAT.

**For Delivery in the Fall, 1902, After Harvest.**

There has been great interest manifested in various sections of Kentucky over this new variety of wheat, and it has been largely used during the past two seasons and marvelous results reported. We have made contracts for considerable quantities of it for delivery in the fall of 1902, after harvest. The following is a description and the claims made for it:

It is claimed to be non-susceptible to the ravages of flies and other insects, and has proven to be rust-proof and not liable to be winter killed. The heads are bearded and well filled with long, fine-berried, extra fine quality of milling grain. Tests during the last three years have proven this variety superior to all others, being most prolific in yield, vigorous growth and free from fly and other insect pests. In Henry County the farmers who sowed it last year reported fine crops, which they sold in their neighborhood for \$2.00 per bushel. Dr. Yeager writes, August 10, 1901: "I sowed Fly-Proof Anti-Rust on good ground, leaving a space and sowed the best Fultz I could find. The result: Fultz, 8 bushels per acre; Fly-Proof, 30 bushels per acre." Farmers in Miami Valley, Ohio, say this is the best all-round variety ever introduced, and yields as high as 50 bushels per acre have been produced. There were a good many car loads of this wheat sold this year in Kentucky and it is being generally sown. We have never grown this wheat ourselves before, but sold large quantities of it this year. If our own tests prove the above claims we shall supply this wheat to our customers; otherwise, orders which have been placed with us will be canceled and any money that has been paid on them refunded.

**PRICES.** We offer Fly-Proof Anti-Rust Wheat subject to crop conditions only, and for delivery in the fall of 1902, after harvest. Per bushel, \$1.40; 10 bushels and over, per bushel, \$1.35; 50 bushels and over, per bushel, \$1.30. Bags included and f. o. b. Indianapolis.

Orders will be booked from January until June 1, and a 10 per cent deposit is required with all orders. In case of failure of the crop, or if we are convinced that it is not as claimed, we reserve the right to return money and cancel the order.

# "Planet Jr." Farm and Garden Tools.

Space will not permit our showing and describing all of the "Planet Jr." tools, but we will send a fully illustrated catalogue free to any who desire it. "Planet Jr." goods are standard machines; the best, and you can rely on getting bottom prices from us on any of the "Planet Jr." goods.

## "Planet Jr." No. 3 Hill and Drill Seeder.



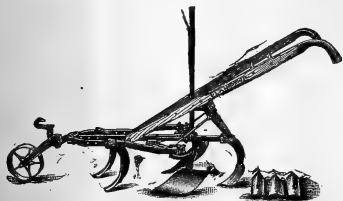
Sows either in hills or in a continuous row. A seeder that does not drop in hills is fast becoming a thing of the past. Why? Because all crops that are to be grown from seed and thinned to a regular stand, should be planted in hills at just the distance apart the plants are desired, for in drilling, unless the seed is sown unnecessarily thick, there will not always be a plant at the proper spot, and the crop is therefore irregular. This machine not only sows in a continuous row, but also drops in hills, 4, 6, 8, 12 and 24 inches apart. We can heartily recommend it. Price, \$9.50.

## "Planet Jr." No. 12 Double Wheel Hoe, Cultivator, Rake and Plow.

This tool combines in itself the good points of its predecessors, with valuable new ideas. It has 11 inch wheels, which can be set four different distances apart. The frame is malleable, with ample room for tool adjustment, and can be set at three different heights. The handles are adjustable, and the arch is of stiff steel, unusually high. The design of the frame is new, allowing the changes of the tools to be made without removal of the nuts from the standards. The machine has an unusually large equipment, seven pairs of tools in all, and the amount of work possible with this machine is almost incredible, covering the whole range of wheel hoe work both in the garden and on the farm, and has our unqualified endorsement. Price, complete, \$6.00.

No. 13 Double Wheel Hoe (Hoes only).....\$4.00

## "Planet Jr." No. 8 Horse Hoe and Cultivator.



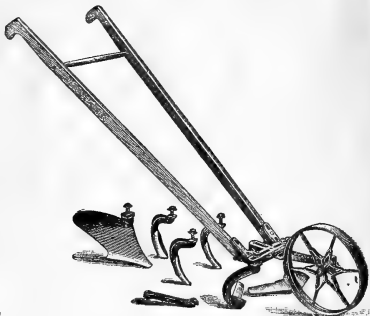
Probably no other cultivating machine is so widely known as the "Planet Jr." No. 8 Horse Hoe and Cultivator. It is so strongly built as to stand incredible strain, yet it is light and easily handled. Every part of the tool is perfected to make it valuable to the intelligent farmer, who knows the best is always the cheapest. Price, No. 8 Horse Hoe, \$8.00; No. 7 Horse Hoe, \$7.50; No. 4 Horse Hoe, \$5.25.

## "Planet Jr." No. 4 Combined Hill and Drill Seeder and Single Wheel Hoe.



This is exactly the same style of seeder as the No. 3 "Planet Jr." Hill Dropper. It is smaller in capacity, though still of good size, holding two quarts. It drops in hills the same as the No. 3, and in drills any thickness, handling the smallest paper of seeds perfectly. It is simple, durable and very light running. Thrown out of gear instantly and the flow of seed cut off, by simply raising the handles. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes one of the most admirable Single Wheel Hoes of the "Planet Jr." family. Price, \$10.50; as a Drill only, \$7.50; without Rakes, \$9.50.

## "Planet Jr." No. 17 Single Wheel Hoe, Cultivator, Rake and Plow.



This latest and best Single Wheel Hoe has an 11-inch wheel with broad face, and a conveniently arranged and very valuable set of tools. It is very light, strong and easy running. Has adjustable handles and frame, and is the most perfect Wheel Hoe for market gardeners and private places. Frame changes in height, and the wheel to the other side of the frame, to allow of hoeing both sides of the row at one passage. Price, \$4.25.

## "Planet Jr." Twelve Tooth Harrow, Cultivator and Pulverizer.

This tool has rapidly grown into favor with farmers, market gardeners and strawberry growers. It has a high frame, and the chisel shaped teeth cut an inch wide, each. Hand levers regulate width and depth while in motion, and the pulverizer prepares the ground capably for the Seed Drill or for plant setting, and controls the depth of the rear teeth. It contracts to 12 inches and expands to 32 inches. Cultivates without throwing earth upon the plants, and the smooth, round throated teeth turn strawberry runners without injuring them. Price, without Pulverizer or Wheel, \$5.00; without Pulverizer, \$6.00; complete, \$7.50. Plain, \$6.50; with Wheel, \$8.25; complete, \$10.00.

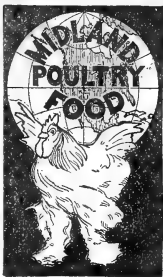
For cutting strawberry runners, we make a special attachment consisting of a 10-inch flat steel disk, mounted on an out rigger. Price, extra, \$1.75.



## MEALS.

Midland Formulas. Ready mixed.

1. Nursery Chick Food. 2. Growing Chick Food. 3. Fattening Chick Food. 4. Egg and Feather Producing Food. 5. Nursery Duckling Food. 6. Growing Duckling Food. 7. Fattening Duckling and Gosling Food. 8. Laying Duck Food. 9. Stock Ducks Summer Food. 10. Growing Gosling Food.



The feed, not the breed, is responsible for results. The balanced ration for poultry is here at last. The 200-egg hen is now a possibility. Our efforts to furnish the poultry world with a complete food for a specific purpose, and built on a scientific and practical basis by men of experience and ability, has met with unqualified success. Our food is now being used by the most progressive men in every State in the Union. To prove its merits, order a bag or two of our No. 4 to feed your flock through the moulting season and thereby shorten it one-half, and they will begin to lay early and continue all winter if fed as directed. Don't wait until it is too late to recover the lost time.

There is nothing that will put birds in as fine a show condition as No. 4. Try it and be convinced. It is not a stimulant or condiment, but a complete food. It is the most economical food you can use. It requires no accessories, as green bone, etc., and will produce results you cannot otherwise attain. \$1.75 per sack, two sacks \$3.20. Write for our booklet, The Science of Poultry Feeding.

### VAIL'S GROUND BEEF SCRAP, OR PREPARED MEAT FOR POULTRY.

A very superior grade. This is prepared with very great care and is shipped by us to all parts of the United States, principally to parties who are engaged in raising poultry and eggs for market. It is the finest thing we know of to cause hens to lay.

Feed three times a week at the rate of about a handful to every three birds, in the morning meal of hot food. High prices always prevail at this season of the year for eggs, which makes it extremely profitable to feed.

Price—10 lbs. 40c, 50 lbs. \$1.50, 100 lbs. \$2.50. Special price by the ton.

### FINE BONE MEAL

For poultry and cattle. For mixing once a day with soft feed this is unsurpassed. Laying hens and young chickens whose digestive powers are not strong are much benefited by this food, especially where closely confined in yards. Price—5 lbs. 25c, 25 lbs. 75c, 100 lbs. \$2.50.

## VAIL'S CHICK MANNA.

A health food for little chicks. Chick Manna is a health food for little chicks, and with it you can raise every chick hatched. It promotes health, quick growth and strong development. Especially valuable for raising chicks in winter and early spring. Chick Manna should be the first food and exclusively fed for ten days or more, after which time other food may be given, but should contain a portion of Manna for at least a few days longer. In feeding Chick Manna to chicks that have been fed on other food, let Chick Manna be a part only of the feed for the first day.

Price, 1 lb. 10c, by mail 25c, 5 lbs. 40c, 15 lbs. \$1.10, 50 lbs. \$3.50.

## CHAMBERLAIN'S CHICK FOOD.

A new food recently put on the market; well advertised, and we believe a food of considerable merit and would advise our patrons to give it a trial. It is especially adapted for the feeding of young chicks during the first month. 15 lbs. 50c, 50 lbs. \$1.75, 100 lbs. \$2.75.

## CRUSHED OYSTER SHELL OUR SPECIALTY.

We buy at the car load and can and do sell cheaper than any one else in Indiana. Price, 100 lb. sack 60c, 5 sacks \$2.75. Give us a trial order.

## MICA CRYSTAL GRIT.

In two sizes, fine and coarse.  
Price, 25 lbs. 35c, 100 lbs. 90c.

## GRANULATED BONE.

One handful for every five fowls three times per week. A valuable food at all seasons.

Price, 5 lbs. 20c, 25 lbs. 75c, 100 lbs. \$2.50.

## AMERICAN POULTRY FOOD.

If you are raising chicks for market, there is no food that will force them so fast and produce such development as American Poultry Food for a morning mash.

25 lbs. 75c, 50 lbs. \$1.00, 100 lb. bag \$1.50.

## CLOVER MEAL.

Contains more than 20 times as much lime as corn, hence it is a very concentrated, nourishing food. 100 lbs. sufficient for 20 hens four months.

25 lbs. 75c, 100 lbs. \$2.00.

## VAIL'S OAT MEAL GRITS,

Or Granulated Oats. This feed is par excellence for little chicks. 10 lbs. 40c, 100 lbs. \$3.50.

## LINSEED MEAL.

Has same effect on your fowls as when feeding sunflower seeds, giving a fine, glossy plumage. 10 lbs. 35c, 50 lbs. \$1.25, 100 lbs. \$1.75.

## LEG BANDS.

Copper bands, 12 for 15c, 25 for 30c, 50 for 50c.

Aluminum, 12 for 20c, 25 for 35c, 50 for 60c. Each band has a separate number.

Climax Bands, made of spring brass, so made that the tag acts as clasp, holding them in place. Price per dozen 25c, for 50, 75c, 100, \$1.25.

## THE "ECLIPSE" LEG BAND.

This band is light and neat, and made of aluminum. They are so made that when properly adjusted they cannot come off. The band is easy to put on. It is all one piece. When once on they are permanently attached to the fowl's leg, unless removed by the owner of the bird.

They are made of all sizes and numbered to order. Prices, postpaid, 12 for 30c, 25 for 50c, 50 for 75c, 100 for \$1.25. State breed when ordering.

## THERMOMETERS.

There is no point in the handling of an incubator or brooder outfit that is more important than the maintenance of the correct degree of heat. This can only be done when an accurate thermometer is used. Those handled by us are thoroughly seasoned and tested and can be relied upon.

Oakes' Adjustable, each \$1.10, Prairie State Upright, each, 75c, Prairie State Laydown, each, 75c, Prairie State Brooder, each, 50c, Watertown, each, 75c.

## CUSHION BACK RUBBER STAMPS.

Poultry men have various uses for rubber stamps, so we have made arrangements with a rubber stamp manufacturer to supply anything wanted in this line. Write us your wants, and we will guarantee to fill them satisfactorily.

## MARK YOUR EGGS

With our Kemp Dating Stamp and thereby virtually make an agreement with the purchaser that the eggs you supply are fresh. Your customers will be looking for the date and you will create a good and well paying demand for your product. Many people will pay an extra price for eggs when once they are led to understand that your name and date on them can be relied upon. These stamps are made to print the date and your name at one operation, or if you wish your address can be added.

Prices, complete with Ink Pade, as follows: Your name and dates, \$1.00 each; Your name, address and dates, \$1.10 each; without Pad, 15 cents less.

## EGGS WANTED.

We need each week large quantities of eggs for our incubators, such as Barred Rocks, White Rocks and White Wyandots. If you have any to sell, write us. We do not care for full-blooded stock, as the eggs are for hatching broilers for market.



## SPECIALTIES.

### EYRIE EGG-SHIPPIING BOXES.

Best device ever known for safe shipment of fancy eggs by express. Made of heavy corrugated card-board—strong, compact and light in weight. Handle forms a lock, making it both impossible to open in transit or to pile other goods on top. Setting size 10c each, \$1.20 per dozen, 2 setting size 15c each, \$1.50 per dozen.

### EGG-SHIPPIING BASKETS.

Setting size 50c per doz., 2 setting size 75c per doz.

### POULTRY MARKER.

Register your chicks. Price 25c.

### RELIABLE SPRING-LEVER PUNCH.

The one size for any age. Price 35c.

### SPRAYERS.

Vail's Cyclone, price 75c; Knapsack, each, \$3.50 and \$6.00.

### SANITARY DRINKING FOUNTAINS.

A square, galvanized fountain in two parts. A slight pull on the projecting part of the bottom removes it entirely, and by using a small whisk broom both parts are easily and thoroughly cleaned. It is filled instantly. You don't have to wait for the water to gurgie in through a small hole. It can be hung up out of the dirt or on an ordinary nail or hook.

Price, 1 gallon size 50c, \$5.50 per doz.; 2 gallon size 85c, \$9.00 per doz.

### A SCIENTIFIC TRIUMPH.

Lice Killer and nest-egg combined in one. They are effective. They are lasting. They are not expensive. They do not affect the flavor of the egg or injure it for hatching.

All genuine have embossed on each the words "Knox Nest Egg"; all others are imitations.

We have used them and can recommend them. Try three of them. By mail, postpaid, 35 cents (send stamps), one dozen \$1.00 by express.

### PRAIRIE STATE DRINKING FOUNTAINS.

These fountains are well made of heavy galvanized iron, in four sizes, 1, 2, 4 and 8 quarts. The smaller sizes are just the thing for newly hatched chicks and the larger sizes are admirably adapted for adult fowls. Can be cleaned and filled in a minute and are the simplest, lowest priced fountains in the market.

Prairie Drinking Founts, qt. 20c each, \$2.00 per doz.; 2 qts. 25c each, \$2.50 per doz.; 4 qts. 35c, \$3.25 per doz.; 2 gal. 50c each, \$4.75 per doz.

### STONEWARE DRINKING FOUNTAIN.

Quarts, each, 25c, per doz. \$2.50; One gallon, each, 35c, per doz. \$2.50; Two gallons, each, 50c, per doz. \$5.00.

### CAPONIZING OUTFIT.

Philadelphia set, price \$2.25, The Wigmore set, price \$2.75.

### WILSON'S DRY BONE AND SHELL MILL.

For grinding dry bones, shells and grain. Price, \$5.00.

### CROWN BONECUTTER.

For grinding green bone especially. Without stand, \$6.50; with stand, \$8.50.

### "SANITARY" SELF-FEEDING BOX.

Called Grit Box for short. Three spaces. Made of heavy galvanized iron. Will last a lifetime. Saves waste. Hangs on a nail. Holds four quarts. Soon pays for itself. Neat, clean and convenient. Try them.  
Price, 75c. \$8.00 per dozen.

### EGG TESTER.

The celebrated Prairie State Tester, considered the best in the United States today. Price, 35 cents, postpaid.

### MOISTURE GAUGE.

Used to ascertain the humidity of the atmosphere in room where incubator is running. Price, \$1.50, postpaid.

### NEST EGGS, CHINA.

Per dozen, 40 cents, net.

### MEDICOL NEST EGGS.

These are medicated eggs, but entirely different from anything that has hitherto been offered. They can be cleaned without injury, are lasting, effective and appreciated by chickens and adult fowls. No hen should be set without one of these in the nest as a preventative of vermin. One placed in a bird cage keeps it sweet and the bird free from insects. They drive away lice from pot plants, preventing moths from attacking furs or other clothes when packed away, and are also valuable as a disinfectant. 10c each, \$1.00 per dozen.

### MEDICINAL.

All articles here quoted are well known and well advertised, so we will enter into no description. Any information wanted will be cheerfully given if you drop us a card.

### PRATT'S POULTRY FOOD.

26 oz. pkg. 25c, 5 lb. pkg. 60c.

### HAVENS' ROUP PILLS.

Per box 25c, 250 pills \$1.00.

### DISINFECTANTS—LAMBERT'S DEATH TO LICE.

8 oz. box 10c, 15 oz. box 25c, 48 oz. box 50c, 100 oz. box \$1.00.

### CONKEY'S ROUP CURE.

Per pkg. 50c; making seventy-five gallons of medicine.

### PERSIAN INSECT POWDER.

1/2 lb. 25c, 1 lb. 40c, 1 lb. 75c.

### RUST'S-HAVENS'

Climax Condition Powder. Per pkg. 25c, large size pkg 50c, 6 lbs. \$1.00.

### RUST'S EGG PRODUCER.

26 oz. pkg. 25c, 2 1/2 lb. pkg. 50c, 6 lb. pkg. \$1.00.

### ORR'S LIQUID LICE KILLER.

It is a liquid of great strength and purity. Like his Fly Killer, it does its work by evaporating, the fume or smell killing all lice.

There are various ways of applying it:

1. By simply brushing it like varnish upon the perches and dropping boards.
2. By spraying or sprinkling it into every crack and corner of the poultry house.
3. By placing individual birds in a box containing the liquid in the act of evaporating. The dead lice will be found in the box.

Full directions for each method, also for using it upon young chicks, will be found upon each can.

Retail Prices—By the quart 35c, half gallon cans 60c, one gallon cans \$1.00, a 5-gallon can \$4.00.

Sprayers from 50c to \$1 each, as to size. The Keystone Sprayer costs 75c.

### ELI LICE KILLER.

Sure death to lice, fleas, roaches, bed bugs, moths. Never fails; absolutely harmless. After it has been applied to your poultry house a few hours every louse and mite in it will have been destroyed. Applied economically and easily with Eli-Sprayer. Price per qt. can 25c, per gal. \$1.00, per trial qt. can by express 25c.

### SPRAGUE'S LICE AND INSECT KILLER

will not taint the flesh of fowls, kill the germ in eggs or kill little chicks. We not only guarantee it to do all we claim for it, but such confidence have we in Sprague's Lice and Insect Killer that we will fully guarantee it to be satisfactory or money refunded.

Prices—Half gal. 65c, one gal. \$1, five gals. \$4, ten gals. \$7.

### LEE'S LICE KILLER.

One qt. 35c, one half gal. 60c, one gal. \$1.00.

## CHLORO-NAPHTHOLEUM.

The greatest germ killer and disinfectant known. Non-poisonous, antiseptic, healing. Equally good for man or beast. Bad smells are often forerunners of disease, no matter whether in dwellings, stables or poultry houses. As a preventative of froup, chicken cholera and hog cholera, nothing equals Chloro-Naphtholeum. One bottle, making 12 gals. of fluid, 25c, one qt. can, making 25 gals. of fluid 50c, one half gal. can making 50 gals. of fluid 90c, one gal. can making 100 gals. of fluid \$1.50.

## P. D. Q. POWDER.

A valuable preparation that not only destroys and prevents insects of all kinds on fowls, but drives away quickly all sorts of insects that pester the housewife. It is useful for a hundred and one purposes and not the least among them is that of disinfectant. Per pkg. 25c and 75c, net.

## NEPONSET ROOFING AND LINING PAPERS.

Protection from cold, heat, wind and rain. No leaking roofs. No cracks for wind to enter.

Prices on Neponset paper for roofing and lining:

Neponset Red Rope paper, per roll of 250 square feet, \$2.50 net.

Neponset Red Rope paper, per roll of 500 square feet, \$5.00 net.

Black Neponset Waterproof Building Paper, per roll of 250 square feet, \$1.00 net.

Black Neponset Waterproof Building Paper, per roll of 500 square feet, \$1.75 net.

## EGGS OF THOROUGH-BRED POULTRY FOR HATCHING.

Our Eggs are fresh and true to variety. They can be shipped by express only. We will pack with great care, but in common with all other shippers we cannot guarantee the hatch, as this depends largely on conditions over which we have no control.

**Barred Plymouth Rock**, for general purposes, may be justly entitled the "Farmer's Fowl." They are very hardy, most excellent layers and one of the very best market fowls. Eggs, \$1.50 per 13; \$2.50 per 26.

**Buff Plymouth Rock**—Rich, buff plumage, golden yellow legs; the finest of this family. Eggs \$2.00 per 13; \$3.25 per 26.

**White Plymouth Rock**—Have all the good points of the Plymouth Rock breed. Prolific layers and good mothers. Having a plump, full breast and bright lemon-yellow skin, they possess good characteristics for table purposes. Their white plumage is very attractive. A money-making breed. Eggs, \$1.50 per 13; \$2.50 per 26.

**Buff Leghorns**—This Leghorn, on account of wonderful qualities as an egg producer and early maturity, is bound to become popular. The Buff is the best of this class. Plumage a beautiful buff. Eggs, \$2.00 per 13; \$3.25 per 26.

**Brown and White Leghorns—Single Comb**—They mature very early, and make good table fowls. Splendid layers, producing large eggs. Eggs, \$1.50 per 13; \$2.50 per 26.

**Brown and White Leghorns—Rose Comb**—Similar to the above, except the comb. Eggs, \$1.50 per 13; \$2.50 per 26.

**Buff Cochins**—They thrive well in smallest yards and are most excellent winter layers. Eggs \$1.50 per 13; \$2.50 per 26.

**White Cochins**—Very hardy and make excellent broilers. Mature early; good winter layers. Price of eggs, same as Buff Cochins

**Partridge Cochins**—Attractive appearance and large size. Price of eggs same as Buff Cochins mentioned above.

**White Wyandottes**—Unusually hardy. Most excellent layers. Good mothers. Plumage pure white. Eggs, \$1.50 per 13; \$2.50 per 26.

**Golden Wyandottes**—Color, golden laced with black; general characteristics same as other Wyandottes. Eggs, \$1.50 per 13; \$2.50 per 26.

**Buff Wyandottes**—This new breed will outlay any other of the Wyandottes. A grand fowl in every respect. Wyandottes are enjoying great popularity. Eggs, \$2.00 per 13; \$3.00 per 26.

**Houdans**—The famous French breed. They are splendid table fowl, having fine, close-grained meat. Good egg producers, laying the largest egg of the non-setting breeds. Eggs, \$1.50 per 13; \$2.50 per 26.

**Cornish Indian Games**—Of fine table quality. Its breast is a solid chunk of meat; skin a rich yellow; weigh 7 to 9 pounds; color rich brown, penciled lighter; fairly good layers; best setters. Eggs, \$1.50 per 13; \$2.50 per 26.

**Light or Dark Brahmas**—No breed makes larger or better broilers, at 8 to 10 weeks, than the Brahmas. Very docile. Price for either Light or Dark Brahma eggs, \$1.50 per 13; \$2.50 per 26.

**Black Langshans**—Early to mature; grow to a large size. Good layers all the year round. Eggs, \$1.50 per 13; \$2.50 per 26.

**White Pekin Ducks**—True improved strain. Best broilers. Far ahead of the Muscovy duck for market culture. Best laying duck known. When fat, will weigh from 6 to 7 pounds each. Six eggs, 75c; 13 for \$1.50.

**Mammoth Bronze Turkeys**—The most profitable breed for the market. It leads the Turkey family in size, quality of flesh and beauty. Hens will lay as many as 50 eggs in a season if properly fed and cared for. Six eggs, \$1.75; 13 for \$3.25.

**Toulouse Geese**—This breed is universally acknowledged to be the finest breed in existence. They cannot be excelled for weight, standard weight for an adult gander, being 25 pounds; adult geese, 23 pounds. In color they are dark gray. Every person who wants to raise the best geese will not be without the Toulouse. Six eggs, \$1.75; 13 for \$3.50.

## GALVANIZED POULTRY NETTING.

Standard quality, 2-inch mesh. No. 19 wire furnished in rolls containing 150 feet in length. We do not sell less quantity. Prices subject to change. 18-inch wide, per 150 feet, \$1.30; 24 inch wide, per 150 feet, \$1.75; 36-inch wide, per 150 feet, \$2.60; 48-inch wide, per 150 feet, \$3.50; 60 inch wide, per 150 feet, \$4.30.

## NO. 7 BANNER ROOT CUTTER.

All kinds of roots, beets, carrots, turnips, potatoes, cabbage, apples, etc., can be quickly converted into the most valuable and palatable of poultry food. This machine leaves the finished product in fine shavings not unlike the shavings from an apple-paring machine. It is almost indispensable to the man who desires to produce winter eggs and is equally valuable to the man who grows broilers and to the duck farmer.

They are fast cutters. They are substantially made of good material and with reasonable care will last indefinitely.

No. 7 Banner Root Cutter for Poultrymen—Our net price, each \$5.00.

## CHARCOAL.

A little charcoal once or twice a week is an excellent corrective, keeping the fowls healthy.

Price per lb. 5c, per 100 lbs. \$4.00.

## BELLOWS, SPRAYING.

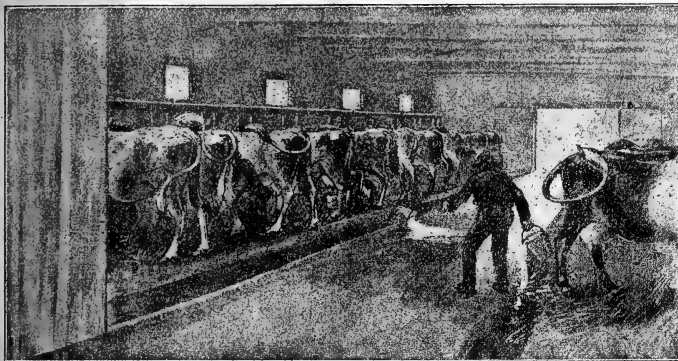
\$1.25 to \$2.25.

## A LIST OF THE LATEST UP-TO-DATE BOOKS WE HANDLE,

And the prices, prepaid by mail.

Gardening for Profit, cloth bound...	\$2.00
Small Fruit Culture.....	1 50
Pasteurization and Milk Preservation .....	1 00
Profits in Poultry.....	1 00
Turkeys and How to Grow Them.....	1 00
Rankin Duck Culture.....	50
The Practical Rabbit Keeper.....	1 50
Barns, Plans and Outbuildings.....	1 50
Capons for Profit.....	50
Success with Poultry.....	1 00
Poultry Remedies.....	15
Poultry Homes and Fixtures.....	25
Artificial Incubating and Brooding 1 00	
Reliable Poultry Manual.....	25
Plymouth Rocks.....	50
Broilers for Profit.....	50
A B C of Agriculture.....	50
American Standard of Perfection.....	1 00
Poultry Culture.....	1 50
Profitable Poultry Keeper .....	1 25
Talks on Manures.....	1 75
Barred, White and Buff Plymouth Rocks.....	50
The Wyandottes.....	50
The Bantam Fowl.....	50
The Leghorn, all varieties.....	50
Eggs and Egg Farming.....	50
Ducks and Geese.....	50
Reliable Poultry Manual and Doctor	25

# ELI-FLI-CHASER



This Man Does Not Use Eli-Fli-Chaser.

**The Eli-Fli-Chaser** is everybody's friend. Your's, because it puts money in your pocket. The cow's, because it saves her torture, allows her to feed quietly all day and enables her to give more milk. Horses will work easier. Stock cattle will fatten better.

**The Eli-Fli-Chaser** is a thorough antiseptic disinfectant. Use it about the stables and keep all your animals healthy and prevent disease. It also has the medicinal properties that will heal sores, cure skin diseases and scratches, and keeps the skin in a healthy glossy condition. Will also cure mange on dogs and drive off the fleas from your house pets. The cost is so small, for the relief given, that the results seem magical.

## TRY ELI-FLI-CHASER

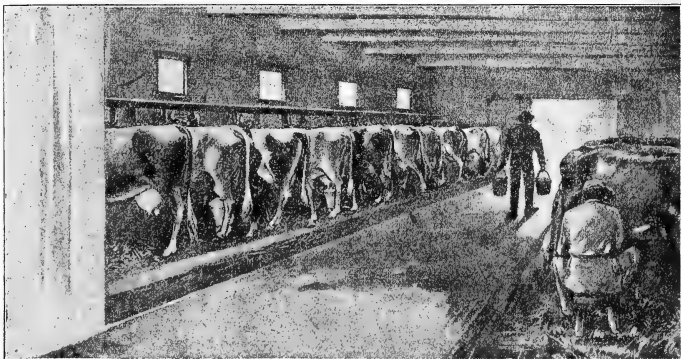
One gallon will work wonders.  
Apply quickly, easily and cleanly  
with a spray pump.

### Prices, Liquid Form.

Pint, by express . . . .	\$0.15
Quart, " . . . .	.25
Gallon, " . . . .	.75
Five Gallons . . . .	3.00

Packed securely.

Spray Pump for applying the Fli-Chaser, 50c. Send us \$1.25 for one gallon of Fli-Chaser and one Spray Pump. Remember, we guarantee the Fli-Chaser to do as we claim, or money refunded. Send us your order and give it a trial.



This Man Uses Eli-Fli-Chaser.

**A BOON TO ANIMALS**  
**CHEAP, SAFE AND**  
**EFFECTIVE.**

**"A Merciful Man is**  
**Merciful to His Beast."**

### The Eli-Fli-Chaser

Is a positive protection against flies, mosquitoes, gnats, fleas and insects. Is non-poisonous and easily applied. Saves patience, saves time, saves money. Try it once—have it always.

**THE VAIL SEED CO., Indianapolis, Ind.**

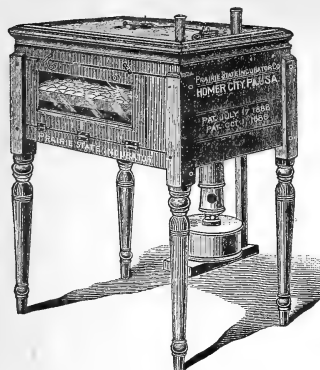
We are western agents for The Prairie State, the best Incubator on the market. Write for full illustrated catalogue, if interested.

## PRAIRIE STATE INCUBATORS—"SPECIALS."

These machines are made of the very best material procurable, are built with double walls throughout, with insulating packing between the walls. They are the models which established the reputation of the Prairie State, and are sold with the strongest warranty that we can possibly give them.

### Prairie State "Specials."

Number.	Dimensions.	Capacity.	Price.
0	15 $\frac{1}{2}$ x 26 $\frac{1}{2}$	60 to 65 eggs.....	\$12.00
1	23 x 34 $\frac{1}{2}$	110 to 120 ".....	18.00
2	28 $\frac{1}{2}$ x 50	220 to 240 ".....	29.00
3	28 $\frac{1}{2}$ x 70	320 to 380 ".....	38.00
4	28 $\frac{1}{2}$ x 95	440 to 480 ".....	50.00
288 Duck Goose Machine	36 x 68 31 x 18 $\frac{1}{2}$	{ Duck eggs, 288 } { Hen " 400 } 60 eggs.....	44.00 25.00



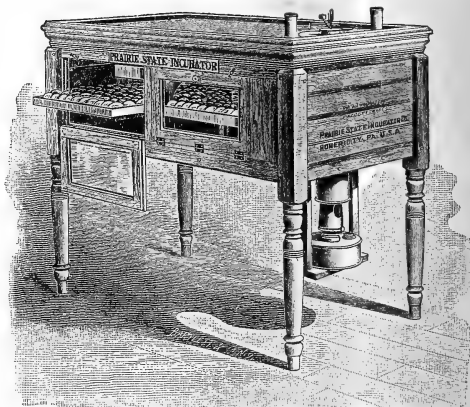
No. 0-SPECIAL.  
Capacity, 65 Eggs; Price, \$12.00.

### SPECIAL DUCK MACHINE.

This machine is built to meet the requirements of those who raise ducks exclusively or on a large scale. The same general principles of construction employed in our other machines have been followed, with slight modifications, especially in the matter of ventilation, to meet the requirements of duck eggs. The egg tray and egg chamber are deeper than in the regular hen egg machine and there is more room in the nursery. It has been designed so as to take up the least possible space in the incubator room or cellar, allowing a large number to be placed upon a very small floor space. It is a machine that we can fully recommend. This machine works very well with hen eggs, having a capacity of 400 eggs.

## PRAIRIE STATE INCUBATORS— STYLE A.

These are machines of good substantial construction and well finished. They are sold at a lower price than our Prairie State Specials, the saving being in the arrangement of the egg trays. In all Style A machines we have but one tray with automatic turning device. There is a large nursery under



No. 2-SPECIAL.  
Capacity, 240 Eggs; Price, \$29.00.

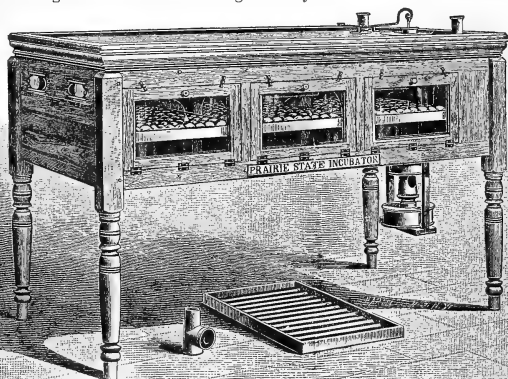
the tray and a trap door through which the chicks drop after they begin to move about. There is but one door in these machines. The tray is very simple in construction; a child can turn the eggs in a few seconds without removing the tray from the machine. It is so constructed that it leaves the eggs in a proper position after turning, and it is so convenient that it reduces very much the time required for caring for the incubator. Style B same as A with exception of having no nursery under egg tray.

### Prairie State Style A.

No.	Dimensions.	Capacity.	Price.
1	27 x 37	150 eggs.....	\$20.00
2	27 $\frac{1}{2}$ x 47	210 ".....	26.00
3	30 x 46	300 ".....	32.00

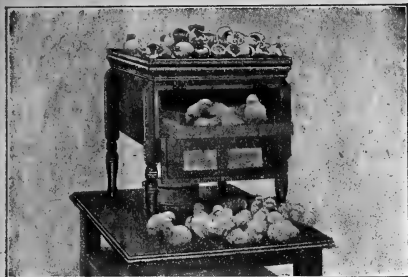
### Prairie State Style B.

No.	Dimensions.	Capacity.	Price.
1	27 x 37	150 eggs.....	\$15.00
2	27 $\frac{1}{2}$ x 47	210 ".....	22.00
3	20 x 46	300 ".....	25.00



No. 288-SPECIAL DUCK.  
Capacity, 288 Eggs; Price, \$44.00.

No. 1 BABY. Price .....\$6.00

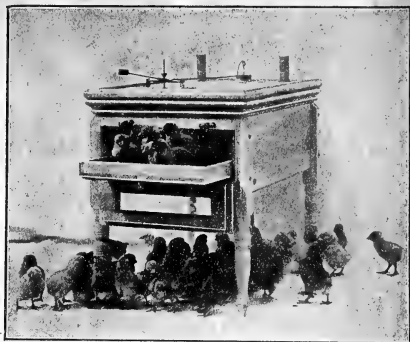


BABY No. 1. 50 EGGS.

These Baby Incubators are built in the two sizes here illustrated, of 50 and 100 egg capacity. No. 1, 50 egg machine, has one blank tray, with no turning appliance. The eggs being few in number, can easily be turned by hand.

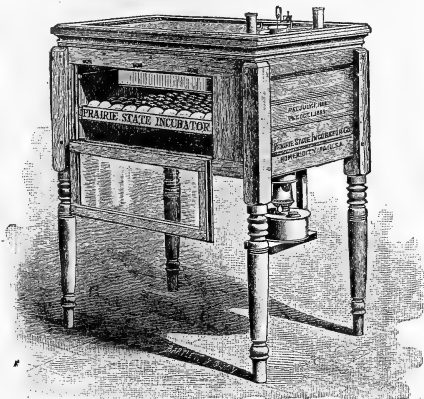
Baby No. 2 has automatic turning tray, with removable turning device, which gives blank tray capacity. These machines have exactly the same system of heating and ventilation as have the larger and more expensive ones. All metal parts are of brass and galvanized iron, but has only single case. The top, however, is double and the entire machine well ventilated. These incubators are made to meet the demand for low priced small machines and we fully guarantee them in every respect.

No. 2 BABY. Price .....\$10.00



BABY No. 2. 100 EGGS.

No. 1 SPECIAL.



No. 1-SPECIAL.

Price, \$18.00.

But one illustration of the many larger machines is all we can give room. This is Special No. 1, 120 eggs capacity. The Specials range in size from 65 egg capacity at \$12.00 to 480 eggs at \$50.00, while our other styles include all sizes from 100 eggs up. Special machines are also made for duck, turkey and goose hatches.

The principle of heating and regulation in all our machines is the same and all will be equally effective in hatching, the difference being in points of convenience in taking care of them.

All Incubators are sent out ready for operation. Thermometer, egg tester, lamp, wick, with book of directions, all sent free with each machine.

Fine illustrated catalogue sent on application, showing every style, with full information on all points. Write for one.

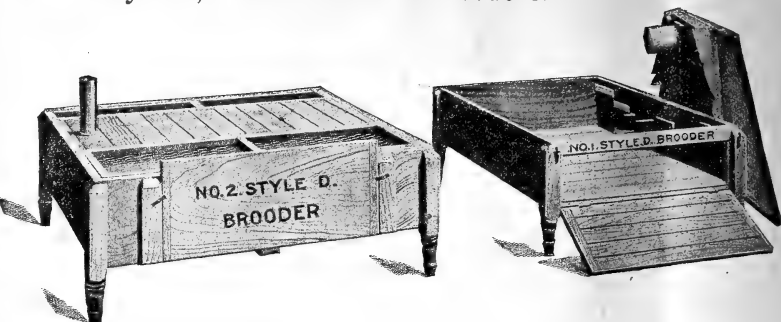
# THE VAIL SEED CO.

150 North Delaware Street, Indianapolis, Ind.

# ... BROODERS ...

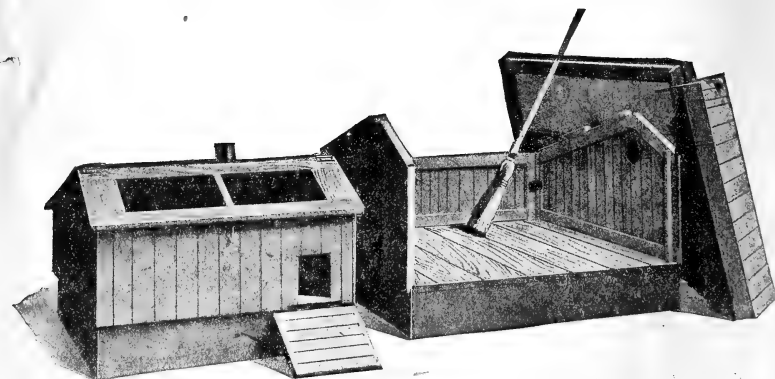
## Style D, Indoor Hot-Air Brooders.

This Brooder has been built to supply the demand for something low in price, simple in operation, economical in oil and successful in operation. Although its price, it is in no sense a cheap or second-rate Brooder. The very best of material and workmanship enters into its construction. It is two feet wide, three feet long, with an incline, so that the chicks get in and out easily, and when the incline is closed at night the chicks are safe from rats or prowling enemies. The hover is similar in principle to the one used upon our sectional Hot-Water Brooder. The only difference is the hover is heated, in this machine, by a galvanized iron radiator through which circulates the hot air from the lamp. One-half inch away from the radiator is a wire gauze to prevent the chickens from touching the tank and allowing the air for ventilation to pass over the chicks. This Brooder is provided with forced ventilation, ventilating all parts of the hover; no matter how many chicks are under it, each chick gets its share of air. The burner used in this Brooder is of the hover is packed with a layer of mineral wool, which prevents loss of heat and adds to the economy of operation.



- No. 1. Capacity 80 Chicks, weight, net, 40 pounds. Price ..... \$7.00  
No. 2. Capacity 110 Chicks, weight, net, 60 pounds. Price ..... 9.00

## Style C, Outdoor Brooder.



STYLE C, No. 1.

STYLE C, No. 2.

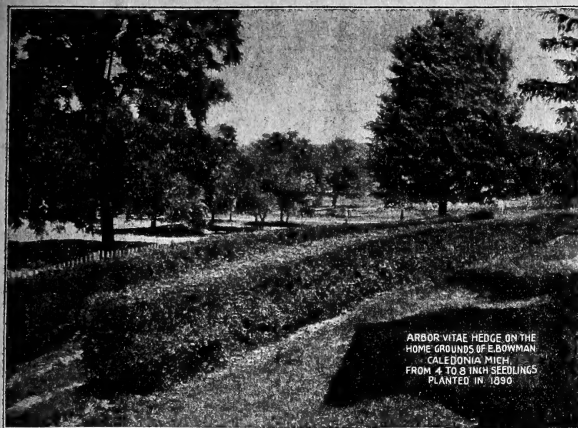
The heating device is identical with the principle of the tubular lantern, and is the most perfect ever applied to the heating of outdoor brooders. We guarantee that the Prairie State is the most economical of all outdoor brooders. A glass door in the lamp case allows the operator a view of the lamp and flame at all times. The lamp is at the end of the brooder and is easily accessible. The roof is of galvanized iron and glass, giving an abundance of light at all times. As the light enters from above, the chicks do not crowd and trample each other to death in an effort to get through the glass, as they are certain to do when the light is in the side.

- This Brooder is on runners and may be easily moved from place to place. The roof and sides may be lifted off the floor (see illustration), so that the brooder is readily cleaned. The entire brooder may be taken apart (much after the fashion of a bedstead) for cleaning or storing.  
No. 1. Capacity 100 Chicks, weight, net, 95 pounds. Price ..... \$13.00  
No. 2. Capacity 150 Chicks, weight, net, 150 pounds. Price ..... 18.00

## Style B, Sectional Hot-Water Pipe Brooders.

No.	Dimensions Each Section.	Capacity.	Price.
2.	Two sections 36 x 36	200 Chicks	\$19.00
3.	Three " 36 x 36	300 "	24.00
4.	Four " 36 x 36	400 "	29.00

SEND FOR CATALOGUE DESCRIBING SECTIONAL BROODERS.



ARBOR-VITAE HEDGE ON THE  
HOME GROUNDS OF E. BOWMAN  
CALLEDONIA, MICH.  
FROM 4 TO 8 INCH SEEDLINGS  
PLANTED IN 1890

## THE American Arbor Vitae

This beautiful evergreen is rightly named, signifying "Tree of Life," as there is no evergreen more tenacious of life than this. For Screens or Wind breaks it has no equal. For hedges it is the best in the world and may be trimmed into any desired shape. If it is planted for Screens or Wind breaks the top may be cut back each year when it has grown tall enough to suit the owner, then growing thicker and more dense instead of taller. Perfectly hardy anywhere in the United States, and thrive naturally in high dry places and on low ground, also doing splendidly on very rocky ground.

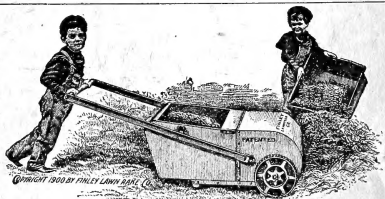
The two hundred plants of this special offer are each and every one of them select A Number 1 trees; there is not a single "cull" among them. We want them to be a lasting advertisement of our business and it is therefore of much importance to us that every one of the many who will take advantage of this offer shall be successful, pleased and thoroughly satisfied with them. Our offer to send them prepaid includes all parts of the United States where there is, an express or freight station, and if necessary the smaller size can be sent by mail postpaid, in packages.

A similar opportunity may never come again and we advise everybody who has room for a hedge, Screen or Wind break, to send in their order at once  
**200, 1 to 1½ Foot Trees, delivered anywhere for only.....\$2.50**    **Or 200, ¾ to 1 Foot Trees, delivered anywhere for only.....\$2.00**  
In ordering, state Express office and Express line running there. No order for less than 200 accepted at these prices.

## THE LITTLE GIANT MOLE TRAP. BEATS THEM ALL.

Simple and durable in its construction. Self setting by pressing down on lever. Very convenient feature found on no other trap. Made from best Spring Steel, thoroughly Galvanized.

Price .....75c



## Finley Rotary Lawn Rake.

A thoroughly durable and reliable machine, to follow the lawn mower. It takes up all the grass, either long or short; twigs, leaves and small loose litter of any kind, stones included, that a hand rake would not touch. A man can rake three times as fast as with a hand rake. A child can run it.

Price .....\$12.00

## The Lawn Twin.

The special merits of the Lawn Twin, definitely and distinctively stated and concisely put, are:

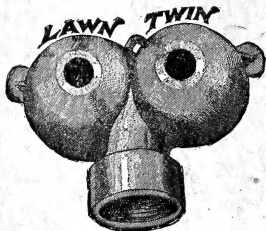
1. A unique combination of simplicity, neatness and effectiveness.
2. Its strength, durability and remarkable adaptation for purposes intended.
3. Its capacity. Having two orifices relatively combined, with their respective outputs intersectionally blending, it distributes with the utmost freedom and completeness. No single sprayer can be compared with it. The fineness and symmetry of its spray makes it especially desirable for new lawns and flower gardens.
4. The hose being relieved of the intense pressure caused by single sprayers, is made doubly durable by the use of the Twin.
5. Its perfect balance or poise keeps it in proper position upon the lawn under any pressure.
6. Its location may be changed while under full working head, with perfect ease, by the aid of a wire or cord attached to the eye between the bulbs, or with the hose itself in the opposite direction.
7. Being a single or one-piece casting, with no movable or adjustable parts to wear, loosen or lose, makes the Twin doubly durable.

50 Cents Each.



KOHLER'S PERFECTION  
CORN PLANTER.

Price, \$1.00.



IS A MARVEL OF ITS KIND.

Simple, Effective,  
Complete.



# 12 PACKETS FOR 25c

## New Customers.

As this catalogue will reach many who have never had our Seeds, we would urge such to send us a TRIAL ORDER—no matter how small. Even though you may not be satisfied with Seeds bought elsewhere, we believe our SPECIAL STRAINS of many of the newer varieties will be found as profitable to you as they have been to thousands of others.

## Secure This Collection and Have a Good Garden.

This **GRAND COLLECTION** of Garden Seeds is given to our customers at the wholesale price of two and one-fourth cents per packet. Guaranteed to be out of choice new Seed, and pure. The greatest collection ever offered by any Seedsman in the United States. Every person planting a garden should secure this valuable collection and receive the benefit of these wholesale prices.

List and  
Description of

## TWELVE CHOICE VARIETIES OF GARDEN SEED

Contained in  
Our Collection.

### No. 1. BEANS—Stringless Giant Pod.

This bean is the best extra early Dwarf Green Pod grown. Ready for table in 6 weeks from time of planting. Pods are long, and green color, stringless, very brittle and exceedingly tender. Flavor delicious. Cooks quickly. It grows upright, branching, keeping the pods well off the ground. A wonderful yielder.

### No. 2. BEET—Market Prize.

This beautiful and excellent Beet comprises the good qualities esteemed by a good cook, sweetness, tenderness, juiciness. They seem to melt in your mouth when eaten. People who are not really fond of Beets consider this variety a real delicacy. In season they are very early and may be used throughout the season without turning woody, and an excellent keeper for winter and spring. Medium size, blood red color. You will use no other when once tried.

### No. 3. CABBAGE—Grand Heroic.

A grand new variety of heroic size. It has many fine qualities that will be prized by every grower. Round head, very large, solid, heavy, fine grain, tender and sweet. Every person loving a fine garden will esteem this elegant variety. The grandest Fall and Winter Cabbage and noted for its excellent keeping qualities.

### No. 4. CUCUMBER—Improved Long Green.

An extra early and exceedingly prolific variety. At picking age the fruit is straight, long, even and thin, and until it reaches full size is of a very dark green or

almost black color. The knobs bearing the spines are prominent at all times of growth. A fine table variety, tender and crisp.

### No. 5. CORN—Family Favorite.

This elegant variety is considered the leading corn for all garden purposes. It grows from four to six feet high, from two to three ears to the stalk; large size, deep grain and extremely sweet. For table use it surpasses all other varieties. It is often called Cannern's Delight, as it is prized so highly for canning purposes.

### No. 6. LETTUCE—California Cabbage.

A very superior Lettuce, remarkable for heading up like a cabbage. Heads are of large size, white, tender and crisp and of good flavor. Very hardy variety. It stands both heat and cold remarkably and is very slow to go to seed. Every garden should possess this elegant variety. For salads it has no equal.

### No. 7. MUSKMELON—Little Gem.

This melon is one of the finest table varieties. Its outside rind is closely netted, flesh of a yellow color and extremely sweet. Considered by all melon-growers as the finest variety grown. Early, solid, and an excellent shipper.

### No. 8. WATERMELON—Hoosier King.

The exterior of this melon is of a dark flesh color; black seeds. The flesh is extremely sweet and of excellent flavor. Firm but thin rind and an excellent shipper. For market purposes it has no equal.

### No. 9. PEAS—First of All.

This extremely early variety derives its name by being first in market and use. It grows from 18 to 24 inches high; a very prolific bearer, pods of nice size and very sweet. Considered as the leading pea for the garden. If you wish an early variety, be sure to plant First-of-All Peas.

### No. 10. RADISH—Rose Gem Forcing.

It is one of the very earliest in cultivation, being a week earlier than Scarlet Turnip White Tipped, which it somewhat resembles in form and color. Its shape is perfectly globular, with rich, deep scarlet top, blending into pure white at the bottom; exceedingly tender, crisp and delicious, never becoming hollow or pithy. It is fit to pull in three weeks from sowing.

### No. 11. TOMATO—Livingston's Honor Bright.

This is one of Mr. Livingston's latest, and in growing it at "Floracraft" we find it a decided novelty and one of merit. In growing, the fruit is at first light green, then an attractive waxy white, then lemon, changing to rich, bright red when ripe. The tomatoes are remarkable for their long-keeping qualities, and are especially recommended for shipping. Foliage greenish yellow, but of vigorous growth.

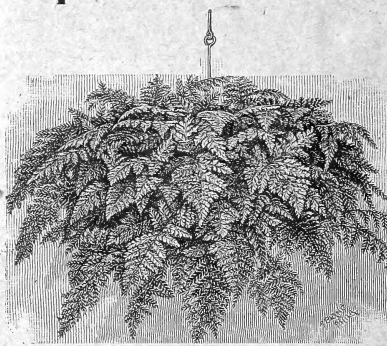
### No. 12. TURNIP—Early Red, or Purple Top Strap Leaved.

The most generally planted variety. It is a quick grower; the flesh is very fine grained and sweet flavored. The red top of the bulb, which extends down to where it rests in the soil, adds much to the appearance of this popular variety.





# Japanese Fern Ball



This beautiful novelty is an importation from Japan, and is certainly the finest addition to the Fernery yet introduced. The Ball is composed of the Japanese Island Fern Roots and Sphagnum Moss, and so constructed as to send out leaves of beautiful emerald green from every point. They grow rapidly and make a handsome ornament for the home, conservatory or greenhouse.

## DIRECTIONS FOR STARTING.

Place ball in water for fifteen minutes and then suspend in any desired position; repeat every two days until growth is started, after which sprinkle occasionally as required. To use in fern dish, cut ball in halves, placing flat side down, thus getting two dishes of beautiful ferns. The Fern Ball may be allowed to dry up at any time and be set away and started again by watering as before. Price, 90c each by express. By mail, 90c.

## COLLECTION No. 2,

# Vail's Choice Collection of Flower Seeds,

Which are found in every garden. The following list of 12 large packages for

## 25c.

ASTERS,	CANDYPUFFS,
PETUNIAS,	PANSY,
SWEET WILLIAM,	HOLLYHOCK,
BALSAM,	PHLOX,
PORTULACOA,	POPPY,
STOCKS,	VERBENA.

## COLLECTION No. 3,

# Vail's Sweet Pea Collection

10 packages of choice varieties of Sweet Peas for

## 25c.

EMILY HENDERSON, white,
BLANCH FERRY, rose,
VENUS, sulphur,
BOREATION, purple crimson,
WAWERY, grand blue,
PRIMROSE, yellow,
BLUSHING BEAUTY, heliotrope pink,
HER MAJESTY, deep red,
COUNTRESS OF RADNOR, lavender,
WHITE CUPID, dwarf.

# THE VAIL SEED CO.,

INDIANAPOLIS, IND.

## THE "CITY GARDEN" COLLECTION.

Price, \$1.00, or Sent by Mail for \$1.25.

Contains 20 Distinct Varieties in All, viz:

Beans (none of which require staking.) Dwarf, string, green pod, 1 qt.; Dwarf, string, yellow wax pod, 1 qt.; Bush Limas, 1 pkt.  
Beet, round, red, 1 pkt.  
Cabbage, Early Wakefield, 1 pkt.  
Carrot, Early Half-long Scarlet, 1 pkt.  
Corn, Early Sugar, 1/2 qt.  
Cucumber, for slicing, etc., 1 pkt.  
Egg Plant, 1 pkt.  
Lettuce, Best Summer Heading, 1 pkt.

Onion, Early White for slicing, 1 pkt.; Large Red for boiling, 1 pkt.  
Parsley, Double Curled, 1 pkt.  
Peas, none of which require staking, Earliest Dwarf, 1/2 qt.; Dwarf, Medium Early for succession, 1/2 qt.  
Radish, Early Round Red, 1 pkt.  
Squash, White Scalloped Bush, 1 pkt.  
Tomato, Early Smooth Scarlet, 1 pkt.  
Turnip, Round White Table, 1 pkt.

## THE "SUBURBAN GARDEN" COLLECTION.

Price, \$2.00. Weight Packed for Shipment, 12 Lbs.

Carriage to be Paid by Customer. Contains 37 Distinct Varieties in All, viz:

Beans, Dwarf, string green pod, 1 qt.; Dwarf, string yellow or wax pod, 1 qt.; Dwarf Limas, 1/2 qt.; Climbing Snap, 1 qt.  
Beet, Round Red Table, 1 pkt.  
Cabbage, Early and Late, each 1 pkt.  
Carrot, Early Long Scarlet, 1 pkt.  
Celery, Self-blanching, 1 pkt.  
Corn, Sugar, Early and Late, each 1/2 qt.  
Cucumber, for slicing, 1 pkt.; for pickles, 1 pkt.  
Egg Plant, 1 pkt.  
Endive or White Chicory, for salads, 1 pkt.  
Lettuce, for soups, 1 pkt.  
Lettuce, Early Heading, 1 pkt.; best for summer, 1 pkt.

Melons, Musk, sweet green-fleshed, 1 pkt.; Water, early, 1 pkt.  
Onions, Early White for Soup, 1 pkt.; Large Red for boiling, 1 pkt.  
Parsley, double curled for garnishing, 1 pkt.  
Peas, Long White, 1 pkt.  
Peas, Extra Early, Medium and Late, each 1 qt.  
Pepper, Large, for Mangoes, 1 pkt.  
Pumpkin, best for pies, 1 pkt.  
Radish, Round Red, 1 pkt.; Round White, 1 pkt.  
Sage, 1 pkt.  
Spinach, Best Summer, 1 pkt.  
Squash, for Summer and Fall, each 1 qt.  
Tomato, Large Smooth Scarlet, 1 pkt.  
Turnip, Round White Table, 1 pkt.

## THE "COUNTRY GENTLEMAN" COLLECTION

Price, \$4.00. Weight Packed for Shipment, 28 Lbs.

Carriage to be Paid by Customer. Contains 60 Distinct Varieties in All, viz:

Beans, Dwarf, snap green pod, 2 qts.; Dwarf, snap wax or yellow pod, 1 qt.; Dwarf Limas, 1/2 qt.; Large Limas, 1 qt.; Pole, Snap, 1 qt.  
Beets, Early and Late, Round Red, each 1 oz.  
Cabbage, Extra Early, Medium and Late, each 1 qt.  
Carrot, Early Scarlet, 1 oz.  
Cauliflower, Snowball, 1 pkt.  
Celery, 1/2 oz.  
Corn, Sugar, Extra Early, 1 qt.; Sugar, Medium Early, 1 qt.; Sugar, Main Crop, 1 qt.  
Corn Salad, 1 pkt.  
Cucumber, for slicing, 1 oz.; for pickles, 1 oz.  
Egg Plant, 1 qt.  
Endive, or White Chicory, for salads, 1 pkt.  
Kale, Dwarf curled, 1 pkt.  
Kohi Rabi, White, 1 pkt.  
Lettuce, for soups, 1 pkt.  
Lettuce, Early Head, 1 pkt.; Best Summer Head, 1 pkt.

Melons, Musk, Early, 1 pkt.; Main Crop, 1 oz.; Water, Early, 1 pkt.  
Nasturtium, for pickles, 1 pkt.  
Okra, for soups, 1 pkt.  
Onions, Small White, for slicing, 1 pkt.; Large White, for boiling, 1 oz.; Large Red, for Winter, 1 oz.  
Parsley, double curled, for garnishing, 1 pkt.  
Paranip, Long White, 1 oz.  
Peas, Extra Early, Medium and Late, each 2 qts.  
Pepper, Large, for Mangoes, 1 pkt.  
Pumpkin, for pies, 1 pkt.  
Radish, Early Round Red, 1 oz.; Early Round White, 1 oz.  
Sage, 1 pkt.  
Salsify, White, 1 pkt.  
Spinach, 1 oz.  
Squash, Summer, 1 oz.; Winter, 1 oz.  
Turnip, for pies, 1 pkt.  
Tomato, Extra Early Scarlet, 1 oz.; Large Scarlet, 1 pkt.  
Turnip, Extra Early, White Flesh, 1 oz.; Yellow Flesh, 1 oz.

These collections contain only tried and true kinds selected to give a continuous supply of fresh vegetables throughout the season. The quantities are proportioned to meet the requirements of such gardeners as are indicated by the titles. We prepare these collections in a form convenient for those who do not care to wade through long lists and prefer to take advantage of experienced judgment as to kinds and quantities needed.

These collections we make up in quantities before the busy season opens, enabling us to sell them for fully thirty-five per cent less than the articles would cost if purchased separately; therefore we can make no alterations.